

## End Of Life Notice

(Notification - [SAF-B-25-0004])  
[1 February 2025]

**To:** Our Valued Customers

**Overview:** The purpose of this notification is to communicate that Renesas Electronics has begun the End-of-Life (EOL) Process on select part numbers by manufacturing equipment aging mainly.

**Affected Products:** Attached is a list of products affected by this notification. Part numbers given in the attached list are for active part numbers in the Renesas Electronics database at the time of this notification.

**Key Date:**

|                |                                                                                   |             |
|----------------|-----------------------------------------------------------------------------------|-------------|
| Page<br>2      | Final Last Time Buy (LTB)<br>Orders placed after this date will not be processed. | 31-Jul-2025 |
|                | Last Shipment (LTS)                                                               | 31-Jan-2026 |
| Page<br>3      | Final Last Time Buy (LTB)<br>Orders placed after this date will not be processed. | 30-Sep-2025 |
|                | Last Shipment (LTS)                                                               | 30-Sep-2026 |
| Pages<br>4-208 | Final Last Time Buy (LTB)<br>Orders placed after this date will not be processed. | 31-Dec-2025 |
|                | Last Shipment (LTS)                                                               | 31-Dec-2026 |
| Page<br>209    | Final Last Time Buy (LTB)<br>Orders placed after this date will not be processed. | 31-Dec-2026 |
|                | Last Shipment (LTS)                                                               | 31-Dec-2029 |

**Response:** Please place LTB orders in a timely manner prior to the key dates listed to avoid product availability issues. Shipments between the LTB and LTS dates are Non-Cancelable and Non-Returnable (NCNR).

Any order resulting from this notice shall be governed by Renesas's General Terms and Conditions Available at: General Term and Conditions or the applicable legal terms covering the purchase and sale transaction.

Please work with your sales representative or Field Applications Engineer to determine suitable replacement devices.

Renesas will attempt to honor all such purchase orders and scheduled delivery dates, but reserves the right to not accept new orders or to cancel existing orders if such orders cannot be filled through reasonable commercial effort.

Please contact your local sales representative for any questions or comments.

Thank you for your attention.

Sincerely,

Renesas Electronics

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F51305ADFP#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51305BDFP#10                      |
| R5F51305ADFP#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51305BDFP#10                      |
| R5F51305ADFP#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51305BDFP#50                      |
| R5F51305AGFP#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51305BGFP#10                      |
| R5F51305AGFP#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51305BGFP#10                      |
| R5F51305AGFP#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51305BGFP#50                      |
| R5F51306ADFK#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFK#10                      |
| R5F51306ADFK#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFK#10                      |
| R5F51306ADFK#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFK#50                      |
| R5F51306ADFL#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDL#10                       |
| R5F51306ADFL#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDL#10                       |
| R5F51306ADFL#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDL#50                       |
| R5F51306ADFM#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFM#10                      |
| R5F51306ADFM#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFM#10                      |
| R5F51306ADFM#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFM#50                      |
| R5F51306ADFN#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFN#10                      |
| R5F51306ADFN#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFN#10                      |
| R5F51306ADFN#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFN#50                      |
| R5F51306ADFP#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFP#10                      |
| R5F51306ADFP#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFP#10                      |
| R5F51306ADFP#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BDFP#50                      |
| R5F51306AGFK#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFK#10                      |
| R5F51306AGFK#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFK#10                      |
| R5F51306AGFK#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFK#50                      |
| R5F51306AGFL#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFL#10                      |
| R5F51306AGFL#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFL#10                      |
| R5F51306AGFL#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFL#50                      |
| R5F51306AGFM#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFM#10                      |
| R5F51306AGFM#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFM#10                      |
| R5F51306AGFM#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFM#50                      |
| R5F51306AGFN#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFN#10                      |
| R5F51306AGFN#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFN#10                      |
| R5F51306AGFN#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFN#50                      |
| R5F51306AGFP#10                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFP#10                      |
| R5F51306AGFP#30                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFP#10                      |
| R5F51306AGFP#50                                               | 1-Feb-2025           | 31-Jul-2025             | 31-Jan-2026            | R5F51306BGFP#50                      |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| M59111FP#RV0T                                                 | 1-Feb-2025           | 30-Sep-2025             | 30-Sep-2026            |                                      |
| M59118FP#RV0T                                                 | 1-Feb-2025           | 30-Sep-2025             | 30-Sep-2026            |                                      |
| M59314FP#RD5T                                                 | 1-Feb-2025           | 30-Sep-2025             | 30-Sep-2026            |                                      |
| M59314FP#RH4T                                                 | 1-Feb-2025           | 30-Sep-2025             | 30-Sep-2026            |                                      |
| M59314FP#RH6                                                  | 1-Feb-2025           | 30-Sep-2025             | 30-Sep-2026            |                                      |
| M59544FP#RD                                                   | 1-Feb-2025           | 30-Sep-2025             | 30-Sep-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| 2SJ220L-E                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ505S-E                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ506STR0T-E                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ528S-E                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ540-E                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ552-90STR-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ552S-E                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ552STR0T-E                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| 2SJ553S-E                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| AP3405-N                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| AP3601-N                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR10FM-12LBAS#BH0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR10FM-12LC#BG0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR10LM-12LBAS#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR10LM-16LH#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12FM-14LBAS#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-12LB-1#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM12LB1A8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-12LBA8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-14LBA8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-14LBAS#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-14LBAS#C04                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-14LD#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-14LJ#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR12LM-16LH#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16CM-12LC#BH0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16CS-16LBA1#BH0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16FM-16LH-1#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16FM-16LHAS#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-12LA#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-12LBA8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-12LBAS#C05                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-12LD#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-12LDAS#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-14LBAR#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR16LM-16LH#B00                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| BCR16LM-16LH-1#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR1AM-14A-1A6#BD0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR1AM-8P-1#BD0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR20FM-14LJA8#BH0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR20LM-16LBA9#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR25FM-14LJA8#BH0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3FM-12LB1A8#BH0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3FM-12LB-AS#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3LM-12LB-A8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3LM-12LB-AR#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3LM-12LB-AZ#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3LM-12RB-1#B00                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3LM-12RB1JB#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR3LM-14LB-A8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5AS-12A-A1#B01                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5AS-14A-T13#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5FM-12LB-A8#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5FM-12LB-AS#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5FM-14LB-A8#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5FM-14LJ#BG0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5LM-12LB-AR#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR5LM-14LB#B00                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8FM-12LB-AS#BH0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8FM-14LB-A8#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8FM-14LC-A8#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8FM-16LB-A8#BG0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-12LB-1#B00                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-12LB-A8#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-12LD-AS#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-14LB#C00                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-14LB-AR#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-14LB-AR#C00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-14LD#B00                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-14LD#C03                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| BCR8LM-14LJ#B00                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CF61725SJ80FPC                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| CH6TA-12#201                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR02AM-8-A6#BD0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR05AM-16A#BD0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR05AM-16A-TB#CD3                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR12CS-16B#B00                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR12CS-16B#BH0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR12CS-16B-T21#B00                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR12LM-12B#B00                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR2AS-16A-T13#B00                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR2AS-16A-T13#C02                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR2AS-16A-T13#C03                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR3AS-8UE-T23#B00                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR3CS-12A-T1#BH0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR3CS-12A-T2#BH0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR5AS-12A-T23#B00                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR5AS-12A-T23#B01                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CR5AS-8UE-T23#B00                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| CRD5AS-12B-T13#C01                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| D17606BGN100V                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| D17618ABG100V                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| D17618RBN100V                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| D6417709SF133BDV                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| D6417729RF133BV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| D6417729RHX200BV                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61521RJ48FPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61521RJ48FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61522RJ48FPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61522RJ48FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61524RJ48FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61526SJ80AFPUAQ9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61527RJ48FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61542EL40FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61542L40FPV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61543J40FPV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61544EL40FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61544J40FPV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| DF61544L40FPV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61725SJ80LFPUBA9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61725SJ80LFPUBB1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61725SJ80LFPUBB2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAQ2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAQ3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAQ4                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAQ5                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAQ6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAQ7                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAR6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAR8                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAR9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAS1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAS2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAU1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAU2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAU7                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAU8                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAU9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV4                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV5                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV7                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV8                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAV9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAW1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAW2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAW5                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAW6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAW7                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAW9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAX1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| DF61726SJ80AFPUAX2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAX3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAX4                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAY7                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAY8                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAY9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAZ1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAZ2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAZ3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAZ4                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAZ5                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUAZ9                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUBA1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUBA2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUBA3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUBB5                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUBB6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61726SJ80AFPUW7                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61727SJ80LFPUBA5                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61727SJ80LFPUBA6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61727SJ80LFPUBA7                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF61727SJ80LFPUBA8                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7055SDF40KNV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7055SF40KNFV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7055SF40KNV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7055SF40LNV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7055SKNF40KNV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058BDF80KNV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058BF80KNFV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058BF80KNV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058BF80LNV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SBPAKV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SCBPALV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SCFAKV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SDBPAKV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SDBSAKV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| DF7058SDFAKV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SFAKV                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SFAKV#GZ                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SFALQSV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SFALV                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SHFBKV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF7058SKFAKV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF70834AN80BGV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX66T                                |
| DF71242D50NPV#Z1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71242N50NPV#Z1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71243N50NPV#Z1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71250AD50NPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71250AN50NPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71251AD50NPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71251AN50NPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71253D50NPV#Z1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| DF71424AK64FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71424BJ80FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71426AK64FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71426AL80FPAV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71426AL80FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71474A                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71474AK40FPBV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71474AK64FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71474BJ80FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71475AJ80FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71475AK64FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71475AMK64FPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71476AL80FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DF71476BJ80FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61521JXXXFPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61521JXXXFPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61522JXXXFPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61523JXXXFPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61524JXXXFPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61525BJC02FPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| DM61525BJC03FPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61525BJFPV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61525BJXXXFPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61525BJXXXFPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61525CJXXXFPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| DM61527JXXXFPQV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| F71474AKXXXFPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| F71475AKXXXFPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| G71474AKA05FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| G71474AKA06FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| G71474AKXXXFPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| H5N2509PF-E#T205                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| H7N0608LSTR-E                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| H7N1004AB-E                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| H8N0801AB-E                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA13718AFPEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA13718BFPEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA13732-E                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA13732RPEL-E                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA13736FEB-E                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA13741FEB-E                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D01TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D02MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D02TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D03MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D03TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D04MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D04TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D05MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D06MMEL-A                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D06TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D07MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630D08MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630Q01TELL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630Q02TELL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630Q04TELL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| HA1630Q05TELL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1630S05ALPEL-E                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1631D01MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1631D01TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1631D02MMEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1631D03TEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1631S01LPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA1631S04LPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17324ATELL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17339ATELL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17358ATEL-E                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17393ATEL-E                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431FPA04EL-E                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431FPA-EL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431GLPAEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431GLTPAEL-E                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431GUPTL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431HLPEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431HLTPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431UA04-TL-E                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431UA-TL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431VLPEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431VLTPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17431VUPTL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17432GUPTL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17432HLTPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17432HUPTL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17432UA-TL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17432VLTPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17432VUPTL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA178L05UA-TL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA178L08UA-TL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA178L15UA-TL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA179L05U-TL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA179L15U-TL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17L431ALPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| HA17L431ALTPEL-E                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17L431UP-TL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17L432ALTPEL-E                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HA17L432UP-TL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HAF2011-90STL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HAT2114R0T-EL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC13716A                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC8224W01                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC8441P                                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC8493W                                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC8508P                                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC8715W                                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HC8849P#X0                                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD6417615ARFV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD6417616SFV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD6417729F133BV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD6417750RX240DV                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD6417750SVX133V                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD6417751X167V                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A01FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A02FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A03FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A04FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A05FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A06FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A07FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A08FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A09FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A10FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A11FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A12FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F61544A13FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA01F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA02F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA03F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA04F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| HD64F7055SA05F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA06F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA07F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA08F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA09F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA10F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA11F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA12F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA13F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA14F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA15F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA16F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA17F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA18F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA19F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA20F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA21F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA22F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA23F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA24F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA25F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA26F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA27F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA28F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA29F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA30F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA31F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA32F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA33F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA34F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7055SA35F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA01F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA02F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA03F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA04F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA05F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| HD64F7058BA06F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA07F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA08F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA09F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA10F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA11F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA12F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA13F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA14F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA15F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA16F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA17F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA18F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA19F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA20F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA21F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA22F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA23F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA24F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA25F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA26F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA27F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA28F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA29F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA30F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA31F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA32F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA33F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA34F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA35F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA36F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA37F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA38F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA39F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA40F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA41F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| HD64F7058BA42F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA43F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA44F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA45F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA46F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA47F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA48F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA49F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA50F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA51F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA52F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA53F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA54F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA55F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA56F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA57F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA58F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA59F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA60F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA61F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA62F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA63F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA64F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA65F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA66F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA67F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA68F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA69F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA70F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA71F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA72F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA73F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA74F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA75F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA76F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA77F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| HD64F7058BA78F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA79F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA80F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA81F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA82F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA83F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA84F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA85F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA86F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA87F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA88F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA89F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA90F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA91F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA92F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA93F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA94F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA95F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA96F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA97F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA98F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BA99F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB01F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB02F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB03F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB04F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB05F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB06F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB07F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB08F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB09F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB10F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB11F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB12F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB13F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB14F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| HD64F7058BB15F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB16F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F7058BB17F#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71424BA01FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71424BA02FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71474BA01FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71474BA02FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71474BA03FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71474BA04FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71474BA05FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HD64F71474BA06FPYV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HG73C132FV                                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HS9612                                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HS9618                                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HS9622                                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HS9628                                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HWOMTG170#N0                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| HWOMTG170-2                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M301N2M8T-236FP#U3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-819HP#UF                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-828HPUTQ                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-836HP#UF                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-839HPUTQ                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-843HPUTQ                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-XXXHP#UF                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30281M8T-XXXHPUTQ                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30291MAT-6A3HP#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30291MAT-XXXHP#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30291MAT-XXXHPUTQ                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M30291MCV-6A0HP#WA                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M306N4MCT-250FP#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M306N4MCT-250FP#X2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M306N5MCV-778FPUNV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M306N5MCV-779FPUNV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M306N5MCV-780FPUNV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| M306N5MCV-781FPUNV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| M306N5MCV-782FPUNV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25007LFP#X6                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25007LFP#X7                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25007LFP#X8                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25009LFP#X0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25203YWT#X7                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25301SP#U0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R2A25301SP#W1                        |
| R2A25301SP#U1                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R2A25301SP#W1                        |
| R2A25304FP#W0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25306ASP#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25311FP#X0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25415SP#U0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25415SP#W0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25417FP#X0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A25417FP#X9                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2A30440MNP#U5                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2S25000LFP#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R2S25000LFP#W1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4E70590YBGDV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4E70590YFPDV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4E70590YFPV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F20103NFB#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX140, RX230                         |
| R4F2113DFT#U0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX660                                |
| R4F2113NFT#U0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX660                                |
| R4F70580SK80BMV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590DKABGV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA01FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA02FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA03FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA04FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA05FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA06FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA07FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA08FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA09FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA10FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R4F70590KAA11FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA12FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA13FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA14FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA15FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA16FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA17FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA18FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA19FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA20FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA21FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA22FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA23FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA24FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA25FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA26FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA27FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA28FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA29FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA30FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA31FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA32FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA33FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA34FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA35FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA36FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA37FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA38FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA39FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAA40FP#YV                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R4F70590KAAPV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72279Y120FAV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72531BKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72531KFPU#YJ1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72531KFPV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72531RKBG#YJ1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| R5E72531RKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72531RKBGV#YJ1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72533KFPU#YJ1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72546BHKBGV#YJ1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72546BKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72546RKBGV#YJ1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72546RKBGV#YJ1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72546RKWT                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72549RKWT                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72567BKBGV#YJ1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72567KBGV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72567RKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72569BKBG#YJ1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72577BKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5E72577RKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F0E001NFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX23T                                |
| R5F1008AAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008AAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008AGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008AGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008AGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008AGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008CAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008CAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008CGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008CGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008DAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008DAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008DGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008DGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008DGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008DGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008EAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008EAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008EGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1008EGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |

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| R5F1008EGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F100CAAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CAAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CAGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CAGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CAGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CAGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CCAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CCAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CCGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CCGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CCGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CCGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CDAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CDAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CDGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CDGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CDGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CDGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CEAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CEAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CEGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CEGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CEGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CEGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CFAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CFAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CFGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CFGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CFGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CFGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CGAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CGGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CGGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CGGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F100CGGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F100LCAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LCGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LCGBG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LCGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LCGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LDAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LDAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LDGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LDGBG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LDGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LDGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LEAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LEAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LEGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LFAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LFAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LFGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LFGBG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LFGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LFGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LGAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LGAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LGGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LGGBG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LGXXXBG#U0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LGXXXBG#W0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LHAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LHAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LHGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LHGBG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LHGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LHGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LJAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LJAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LJGBG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F100LJGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F100LJGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F1018AAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1018CAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1018CAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1018DAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1018DAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1018EAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1018EAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F101CAAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CAAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CCAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CCAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CDAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CDAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CFAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CFAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CGAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101CGAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F101LCAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LCAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LDAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LDAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LEAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LEAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LFAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LFAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LGAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LGAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LHAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LHAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LJAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F101LJAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104CAAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CAAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CCAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CCAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F104CDAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CDAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CEAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CEAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CFAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104CGDXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F104LCAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LCAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LDAA26LA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LDAA29LA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LDAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LEAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LEAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LFAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LFAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LGAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LGAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LHAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LHAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LJAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F104LJAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F1058AAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1058AAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1058AGLA#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1058AGLA#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1058AGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F1058AGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8AAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8AAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8AGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8AGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8CAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8CGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8CGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8DAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8DAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F10E8DGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8DGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8EAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8EAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8EGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10E8EGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x                             |
| R5F10ELCAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELCAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELCGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELCGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELDAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELDAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELDGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELDGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELEAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELEAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELEGXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F10ELEGXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F110NEAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NEAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NEGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NEGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NFAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NFAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NFGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NFGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NGAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NGAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NGGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NGGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NHAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NHAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NHGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NHGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NJAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NJAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F110NJGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F110NJGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NEAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NEAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NEGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NFAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NFAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NFGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NFGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NGAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NGAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NGGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NGGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NHAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NHAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NHGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NHGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NJAXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NJAXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NJGXXXLA#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F111NJGXXXLA#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GFLFB#U0Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GFL00FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GFL01FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GFL02FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GFLXXXFB#U0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGLFB#U0Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL00FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL01FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL02FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL03FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL04FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL05FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL06FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL07FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGL09FB#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F114GGLL10FB#U0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGLL11FB#U0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F114GGLXXXFB#U0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F11CCCCGH90BG#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F11CCCCGXXXBG#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G2x,RA                          |
| R5F11PLFABG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F11PLFAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F11PLFAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F11PLGABG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F11PLGABG#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F11PLGAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F11PLGAXXXBG#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/G23                             |
| R5F1ZGNGAA00BG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R5F1ZGNGAA01BG#W1                    |
| R5F1ZGNGAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F1ZHSGABG#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F1ZHZGAXXXBG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21206JA01FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21206JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21206JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21206KFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21207JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21207JFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21208JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21208JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2120CKFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216K304FP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216KFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216KFP#UV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21216KXXXFP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217J307FP#U1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217JFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21217JFP#W5                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217JXXXFP#U1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21217KFP#W5                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21218JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21218JFP#G1Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21218JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2121AJFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA01FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA02FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA03FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA04FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA05FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA06FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JA07FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21226JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JA11FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JA12FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JA13FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JA14FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JA15FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227JFP#Y2                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21227KXXXFP                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21228JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21228JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21228KFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2122AJFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2122AJFP#U0AT9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2122AJFP#U0AU6                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2122AJFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2122CJFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21236JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21236JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21236KFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K720FP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K721FP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K722FP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K725FP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K726FP#U1Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K730FP#U3                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K731FP#U3                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237K733FP#U3                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237KFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237KFP#U3                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237KFP#XB                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237KXXXXFP#U1Q                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21237KXXXXFP#U3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JA01FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JA02FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JA03FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JA04FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JA05FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JFP#G1Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238JFP#U1L                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238KA02FP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21238KFP#U1                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123AJFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123AJFP#U0L                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123AK701FP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123AK702FP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123AK705FP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123AK708FP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2123AKFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123CJFP#G0Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123CJFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123CJFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F2123CKFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21244SDFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21244SDXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21244SN085FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21244SN104FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21244SN119FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21244SNFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21244SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21245SN124FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21245SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21245SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21246SN063FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21246SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21247SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21247SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21248SDXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21248SN073FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21248SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21248SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21254SDFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21254SDXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21254SNFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21254SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21254SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21255SDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21255SN634FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21255SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21255SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21256SD550FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21256SDXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21256SDXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21256SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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| R5F21257SNXXFP#X6                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21258SN531FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21258SN589FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21258SN616FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21258SN628FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21258SN645FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21262SN129FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21262SN130FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21262SN140FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21262SN146FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21264J089FP#U0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264J090FP#U0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264JFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264JXXFP                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264JXXFP#U0Q                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264K056FP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264K083FP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264KFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264KFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264KXXFP                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21264SNFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21264SNXXFP#V2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21264SNXXFP#X6                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21265SDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21265SDFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21265SN106FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21265SNXXFP#X6                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21266JD2CFP#Y3                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266JFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266JFPBB3#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266JFPBB4#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266JXXFP                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21266KFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266KXXXXFP                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21266SDXXXXFP#X6                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21266SNXXXXFP#V2                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21272SDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21274JXXXXFP                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21274KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21274KXXXXFP                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21274SN416FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN445FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN446FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN448FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN450FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN461FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN474FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21274SN477FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21275SDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21275SN483FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21275SNEH0FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21275SNXXXXFP#X6                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21276JFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276JFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276JFP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276JXXXXFP                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276JXXXXFP#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276JXXXXFP#W4                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276KFP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276KFP#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276KXXXXFP                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21276SN468FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21276SNXXXXFP#X6                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21282K561SP#W4                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21282KSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284J553SP#W4Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284J558SP#W4Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21284JA01SP#YV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284JSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284K562SP#W4                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284K564SP#W4                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284K566SP#W4                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21284KSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21286JSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21286KSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21294JSP                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21294JSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21294KSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21296K806SP#WV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21296K807SP#WV                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21296KSP#W4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21296KSP#W4Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F212A7SNA65FA#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212AASNA90FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212AASNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212ACSDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212ACSNA76FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212B7SNBC9FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212B7SNBD2FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SN065FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SN073FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SN079FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SN081FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SN083FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SNFP#X6                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212K4SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L2SDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L2SDXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L2SDXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L2SN524FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L2SNXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SDXXXFP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SDXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F212L4SN512FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SN521FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SN526FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SN529FP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SN532FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SN533FP#V2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F212L4SNXXXFP#X6                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321CDXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321CDXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321CN110SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321CNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321CNXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DN102SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DN103SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DN104SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DN105SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DN107SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DN110SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321DNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321MDXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321MDXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321MNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21321MNXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CDXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CDXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN102SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN103SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN105SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN107SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN108SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN111SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN114SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN120SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN121SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN124SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN125SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21322CN126SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CN127SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322CNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322DN201SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322DN207SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322DN209SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322DN211SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322DN212SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322MDXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322MDXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322MNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21322MNXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CDXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CDXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN551SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN560SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN569SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN578SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN579SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN584SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN589SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN593SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN595SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN600SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN611SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN620SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN620SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN621SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN623SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN628SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN630SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN633SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN637SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN638SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324CN646SP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324DN311SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21324DNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324MDXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324MDXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324MNXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324MNXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21324MYSP#54                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331CNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331CNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331DDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331DNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331MDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21331MNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332CDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332CNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332CNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DDA05FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DDA10FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DDA12FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332DNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21332MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332MDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21332MNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CN554FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CN577FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CN622FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CN627FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CN639FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334CNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334DDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334DNB05FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334DNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334MDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334MNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334TDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334TDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334TDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334TNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21334TNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CN507FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CN509FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335CNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21335DDDFP#51                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DNC02FP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DNC02FP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335DNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335MDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335MNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335TDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335TDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335TDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335TNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335TNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21335TNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336CDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336CN557FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336CNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336DDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336DNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336DNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336MDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21336MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336MNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336MNXXXXFP#51                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336TDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336TDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336TDXXXXFP#51                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336TNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21336TNXXXXFP#51                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344CDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344CN550FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344CN598FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344CNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344MDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21344MNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345CDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345CNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345MDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345MN515FP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345MN532FP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345MN534FP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21345MN536FP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346CDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346CNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346GJFP#W4Q                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21346MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346MDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21346MNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2134CWXFXFP#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F21354CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354CNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354DNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21354MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355CN570FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355CN645FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355DNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21355MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356CNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356DDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356DDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356DNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356DNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21356MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21357CN176FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357CN194FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357CNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357MDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21357MNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358CDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358MDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21358MNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135ACDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135ACDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135ACNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135ACNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135AMDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135AMDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135AMNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135AMNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CCDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CCDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CCNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CCNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CMDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CMDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CMNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2135CMNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364CDXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364CDXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364CDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364CNXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364CNXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21364CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21364MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21365MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CN179FA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CN180FA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21366MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21366MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CN158FA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CN159FA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CN189FA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21367MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CN182FP#10                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CN195FP#10                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CNXXXFP#10                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368CNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21368MDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368MNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21368SNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ACNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136AMNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASDXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASDXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASNXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASNXXXFA#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136ASNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2136ASNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCDXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCDXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCN184FP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCNXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCNXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CCNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMDXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMDXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMNXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMNXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CMNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSDXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSDXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSDXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSNXXXXFA#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSNXXXXFA#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2136CSNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21386CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21386CN172FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21386CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21386MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21386MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21387CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21387CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21387MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21387MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21388CDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F21388CNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21388MDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21388MNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21388SDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F21388SNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138ACDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138ACNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138AMDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138AMNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138ASDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138ASNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CCDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CCN155FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CCN190FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CCN191FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CMDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CMNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CSDXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2138CSNXXXXFP#30                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F213G4CNNP#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F213G4CNNP#W4                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F213G6MNNP#W4                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F213M7QNNP#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx+RF                           |
| R5F213M8QNNP#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx+RF                           |
| R5F213MCQNNP#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx+RF                           |
| R5F2C35ACNXXXXFP#50                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2L357CDFP#3L                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367CDFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367CDXXXXFA#31                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367CNXXXXFA#31                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367MDFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367MDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367MDXXXXFA#31                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367MNFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367MNF#30                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L367MNXXXXFA#31                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2L368CDXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L368CNXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L368MDFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L368MDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L368MDXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L368MNFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L368MNXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36ACDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36ACDXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36ACNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36ACNXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36AMDFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36AMDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36AMDXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36AMNFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36AMNFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36AMNXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CCDXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CCNXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMDFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMDFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMDXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMNFA#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMNFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L36CMNXXXFA#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387CN405FP#11                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387CN405FP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387CN407FP#11                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387CN407FP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387CN409FP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387CNXXXFP#11                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L387MNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L388CDFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L388CNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L388CNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2L388MDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L388MNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L38AMDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L38AMNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L38CMDFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L38CMNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A7CDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A7CNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A7MDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A7MDFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A7MDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A7MNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8CDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8CNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8MDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8MDFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8MDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8MNFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8MNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3A8MNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AACDFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AACDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AACNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AAMDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AAMNFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AAMNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3AAMNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3ACCDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3ACMDXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3ACMNFP#31                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2L3ACMNXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA32ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA32ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA32ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA32ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA34ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2LA34ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA34ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA36ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA36ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA36ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA36ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA38ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA38ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA38ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA52ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA52ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA52ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA54ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA54ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA54ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA54ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA56ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA56ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA56ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA56ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA58ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA58ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA58ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA64ADFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA64ADXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA64ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA64ANFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA64ANXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA64ANXXXFP#31                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66ADFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66ADXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66AN429FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66AN430FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66AN431FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66AN432FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2LA66ANFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA66ANXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ADFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ADXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67AN413FA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67AN415FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67AN433FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ANXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA67ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA68ADFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA68ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA68ADXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA68ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA68ANXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA68ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AADFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AADXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AANFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AANXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6AANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CADFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CADXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CANFA#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CANXXXFA#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA6CANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA84ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2LA84ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA84ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA86ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA86ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA87ADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA87ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA87ANFA#V0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA87ANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA88ADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8AADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8AANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8CADFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8CADXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8CANFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8CANWA#N0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2LA8CANXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5F2M120ADXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M120ADXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M120ANSP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M120ANSP#54                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M120ANXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M120ANXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M121ADSP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M121ADXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M121ADXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M121AN202SP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M121ANXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M122ADSP#54                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M122ADXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M122ADXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M122ANXXXSP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M122ANXXXSP#54                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BDFP#50                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BDFP#51                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F2M131BDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BNFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BNFP#50                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BNFP#51                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BNXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M131BNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BDFP#50                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BDFP#51                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BNXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M132BNXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BD605FP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BDFP#30                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BDFP#50                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BDFP#51                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BDXXXFP#30                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BDXXXFP#50                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F2M134BDXXXFP#51                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,RA                           |
| R5F35M3EKFF#G0Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F39108J301GP#VP                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F39204J101FP#V0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F39204J101FP#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F39204J200FP#V0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F51101ADLF#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51101ADLM#G0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51101ADLM#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51103ADLM#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51104ADLF#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F5110HADLM#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F5110JADLF#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F5110JADLM#G0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F5110JADLM#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51111ADLF#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51111ADLM#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51113ADLF#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51117ADLF#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F51118ADLF#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F5111JADLF#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F5111JADLM#UA                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX130, RX140                         |
| R5F52305ADLF#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX260                                |
| R5F52306ADLF#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX260                                |
| R5F52315CDLF#U0                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX261                                |
| R5F562TADDFP#V2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX66T                                |
| R5F562TADDFP#Y2                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61662N50LGV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX660                                |
| R5F61723J40AFPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61723J40AFPV#Z1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61723J40FPV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725J64AFPV#Z1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64AFPU                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64AFPUYC                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64AFPUYD                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64AFPUYE                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64AFPUZ1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64AFPUZ3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64BFPU                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64BFPUZ3                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SJ64FPU                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61725SL64BFPU                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61726SJ80AFPUZ2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61726SJ80LFPUZ2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61727SJ80AFPU                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61727SJ80FPU                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61727SJ80LFPUZ2                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61795SJ64AFPU                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61797SJ80AFPUZ1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F61797SJ80BFPUZ1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| R5F61797SL80AFPUZ1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F64207JFB#G0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F64207JFB#U0Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F64207JFB#W0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F6442FJFB#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F6442FKFB#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F6442FLFB#G0Q                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F6442HJFB#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F6442HKFB#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F6442HLFB#U0                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72214L96FP                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72225K144FP#G1T                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72263K120FP#G0L                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72263K120FP#G0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72265K120FP#G0L                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72265K120FP#G0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72266K120FP                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72266K120FP#G0L                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72266K120FP#G0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72267K120FP#G0L                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72267K120FP#G0Q                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72268Y120FPV                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72275K120FP                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72285K144FP                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72287K144FP                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72295K120FP                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72513DKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72513KBGV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72513KBGV#YR                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72513KBGVTR                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72530KFPV                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72531DKFPV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72532KFPU                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72533DKKFPU                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72539KBIU                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72540RKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R5F72540RKWT                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72543RKBGV#WZ                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72543RKOMWT                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72544R                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72549KWT                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72560RKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72560RKBGV#WZ                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72567RDKBGV                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72567RKOMWT                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72568RKBGV                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72568RKBGV#WZ                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72568RKWT                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72A06K1BAFM                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72A08KACAFM                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72AV8KFJ                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F72AYBKFP#V9                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F74504EVA                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5F74965ANBG#00                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX66N                                |
| R5F74966ANBG#00                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RX66N                                |
| R5L20000KXXXSP#ES                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R5R0C07AAFP#31                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R5R0C088AFP#31                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| R61509ACC3NJ-4                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R69319A0D5HWD-P-X                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R69323AAC5NJSE-4                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01082CFM#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01082CFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01082DBR#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01082DNG#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E010D2CFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01182CFM#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01182CFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01182DBR#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01182DNG#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E011D2CFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E014D2CFB#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| R7F0E014D2CFB#AA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E014D2CFP#AA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E015D2CFB#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E015D2CFB#AA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E015D2CFP#AA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E016D2DBN#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E016D2DBN#HA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E017D2DBN#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E017D2DBN#HA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7F0E01BD2DNB#AA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7FS3A17C2A01CBJ#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7FS3A37A2A01CBJ#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7FS3A6782A01CBK#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7FS3A77C2A01CBJ#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7FS3A77C2A01CBJ#AC1                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7FS3A77C2A01CLJ#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS3A77C2A01CLJ#AC1                 |
| R7FS3A77C2A01CLK#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS3A77C2A01CLK#AC1                 |
| R7FS3A77C3A01CFB#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS3A77C3A01CFB#AA1                 |
| R7FS3A77C3A01CFM#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS3A77C3A01CFM#AA1                 |
| R7FS3A77C3A01CFP#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS3A77C3A01CFP#AA1                 |
| R7FS3A77C3A01CNB#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS3A77C3A01CNB#BA1                 |
| R7FS5D57A2A01CLK#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57A2A01CLK#AC1                 |
| R7FS5D57A3A01CFB#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57A3A01CFB#AA1                 |
| R7FS5D57A3A01CFP#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57A3A01CFP#AA1                 |
| R7FS5D57C2A01CLK#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57C2A01CLK#AC1                 |
| R7FS5D57C3A01CFB#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57C3A01CFB#AA1                 |
| R7FS5D57C3A01CFB#YR2                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57C3A01CFB#AA1                 |
| R7FS5D57C3A01CFB#YR3                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57C3A01CFB#AA1                 |
| R7FS5D57C3A01CFP#AA0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7FS5D57C3A01CFP#AA1                 |
| R7S721000VCBG#AC0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7S721000VCBG#AC1                    |
| R7S721000VCFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7S721000VCFP#AA1                    |
| R7S721000VLFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S721001VCBG#AC0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7S721001VCBG#AC1                    |
| R7S721001VLBG#AC0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S721006VLFP#AA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910020CBA#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| R7S910020CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910021CBA#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910021CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910022CBA#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910022CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910023CBA#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910023CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910051CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7S910051CBA#BC0                     |
| R7S910052CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R7S910052CBA#BC0                     |
| R7S910120B01CBG#AC0                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910120XXCBG#AC0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910121CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910121XXCBG#AC0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910122B02CBG#AC0                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910122XXCBG#AC0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910123CBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R7S910123XXCBG#AC0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A04019BG#G0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A04019BG#G1                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A73050WT#N0                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77460DB33BG#GA                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77470HA02BG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77471HA02BG#U0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77850BADBGNV#G0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77850BADBGNV#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77850BADBGNV#U1                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77850BANBGNV#U0                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77951JB21BN#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77951JBS1BA#GA                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77965JBL0BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77990JA90BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77990JAA0BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77990JAD0BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77990JBS2BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77995JA40BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8A77995JA40BG#GL                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R8J77951JG0CBA#GA                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8J77951JG0DBA#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8J77951JG20BG#G9                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8J77951JG20BG#GD                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R8J77951JQ03BA#GA                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A03G011GBG#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R9A03G011GBG#BC1                     |
| R9A03G017GBG#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A04G013GBG#BCA                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A06G013GBA#BC2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A06G013GBG#BC2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A07G013GBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A07G013GBG#AC2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A07G013GBG#BC2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9A07G019GBG#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R9A07G019GBG#BC1                     |
| R9J06G023SGBG#AC0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9J06G023SGBG#AC1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9J06G023SGBG#BC0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9J06G023SGBG#BC1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| R9J06G029GBG#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R9J06G029AGBG#BC0                    |
| R9J06G029GBG#BC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | R9J06G029AGBG#BC0                    |
| RAA2500103HFP#KA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAA2500103HFP#HA0                    |
| RAA2520034HFT#KA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520075HSP#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520075HSP#HA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520075HSP#HA2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520085HSP#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520085HSP#HA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520085HSP#HA2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520095HSP#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520095HSP#HA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA2520095HSP#HA2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA252013HFT#KA0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAA252013HFT#KA1                     |
| RAA270010HFN#KA0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAA270010HFN#KA4                     |
| RAA270010HFN#KA1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAA270010HFN#KA4                     |
| RAA270010HFN#KA3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAA270010HFN#KA4                     |
| RAA270200HFP#KA2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAA270200HFP#KA1                     |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| RAA7102124A01KFP#AC0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA730300CFP#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA730300DFP#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA730301CFP#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAA730301DFP#AC0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RAJ240055A20DNP#HC0                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ240055A20DNP#HC1                  |
| RAJ2510014HSP#HA0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ2510014HSP#HA3                    |
| RAJ2510014HSP#HA1                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ2510014HSP#HA3                    |
| RAJ2510014HSP#HA2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ2510014HSP#HA3                    |
| RAJ2510014HSP#HA4                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ2510014HSP#HA3                    |
| RAJ2510014HSP#HA5                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ2510014HSP#HA3                    |
| RAJ2510014HSP#HA7                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RAJ2510014HSP#HA3                    |
| RBZ030J065VW0GE1#BB0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RBZ040F025VF0GE1#BB0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RBZ040F030VF0GE1#BB0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RBZ050H065VC0GE1#BB0                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60D2DPE-00#J3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60D5DPM-00#T1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60D7DPM-00#T1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60F3DPK-00#T0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60F5BDPQ-A0#T0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60F5DPQ-A0#T0F                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60F7BDPQ-A0#T0F                                            | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJH60T4DPQ-A0#T0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJJ0318DSP-00#J5                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK0391DPA-00#J5A                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK0393DPA-00#J5A                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK0652DPB-0T#J5                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK1525DPJ-00#T3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK2006DPE-00#J3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK2006DPE-02#J3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK5013DPE-00#J3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK5033DPP-MZ#T2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJK6018DPM-00#T1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJL5012DPE-00#J3                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJL5015DPK-00#T0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| RJL5032DWA-01#W0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJL6018DPK-00#T0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJL6032DWA-01#W0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJP4301APP-MG#T2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJP60D0DPP-M0#T2                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJP60F4DPM-00#T1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJP60V0DPM-00#T1                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJP60V0DWA-01#W0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJQ6008BDPM-00#T0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE03DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE03DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE04DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE04DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE05DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE05DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE06DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE06DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE07DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE07DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE08DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CE08DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF01DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF03DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF04DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF05DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF06DWS-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF06DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF07DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU1CF08DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU6054WDPQ-A0#T2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU60C3DWT-00#X0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU60C3WDPP-M0#T2                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU60C4DWT-00#X0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU60C5DWT-00#X0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU60C6DWT-00#X0                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E03DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| RJU65E03DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E04DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E04DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E05DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E05DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E06DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E06DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E07DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E07DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E08DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65E08DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F23DWA-00#W0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F23DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F24DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F25DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F26DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F27DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RJU65F28DWT-00#X0                                             | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A26FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A27FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A28FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A29FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A31FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A44FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51A45FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA51B27FLPEL-E                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA52A10MMEL-E                                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| RNA52A10T#H5                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| TEG7058SKWT                                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD16F41GB-601-GAG-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F110MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F110MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F110MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F111MC-702-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F111MC-704-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F111MC-CAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD179F111MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F111MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F111MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F112MC-CAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F114MC(S)-CAB-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F114MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F114MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F114MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD179F114MC-CAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD33930GJ-GBJ-A                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD35003F5-MNA-A                                              | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6741GB-YEU-A                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6751AW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6770BW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6770DW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6770EW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-B05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-B06                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-B07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-B12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-B14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-B15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771BW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-402                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-403                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-404                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-407                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-410                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-411                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-412                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-413                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-414                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-415                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-416                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-417                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-418                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6771DW-419                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-420                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-421                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-422                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-423                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-424                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771DW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E10                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E11                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E13                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E17                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E19                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E20                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E21                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E22                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E23                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E24                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E25                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E26                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E27                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E28                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E29                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E30                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E31                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E32                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6771EW-E33                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E34                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771EW-E35                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771W-010                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771W-014                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771W-018                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771W-025                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6771W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6776AW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6776BW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6776CW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6776DW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777AW-A02                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777AW-A03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777AW-A04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777AW-A05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777AW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777W-003                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6777W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6778CW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6778W                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C25                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C27                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C28                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C29                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C30                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C31                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C32                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C33                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C34                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C35                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6779CW-C38                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C39                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C40                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C41                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C42                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C43                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C44                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C45                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C46                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C47                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C48                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C49                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C50                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C51                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C52                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C53                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C54                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C55                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C56                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C57                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C58                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C59                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C60                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C61                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C62                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C63                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C64                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C65                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C66                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C67                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C68                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C69                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C70                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C71                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C72                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C73                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| UPD6779CW-C74                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C75                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C76                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C77                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C78                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C79                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C80                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C81                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C82                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C83                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C84                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C85                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C86                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C87                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C88                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C89                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C90                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C91                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C92                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C93                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C94                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C95                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C96                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C97                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C98                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-C99                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G00                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G01                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G02                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G06                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| UPD6779CW-G10                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G11                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G13                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G17                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G19                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G20                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G21                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G22                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G23                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G24                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G25                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G26                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G27                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G28                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G29                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G30                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G31                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G32                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G33                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G34                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G35                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G36                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G37                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G38                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G39                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G40                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G41                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G42                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G43                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G44                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G45                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6779CW-G46                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G47                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G48                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G49                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G50                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G51                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G52                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G53                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G54                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G55                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G56                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G57                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G58                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G59                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G60                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G61                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G62                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G63                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G64                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G65                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G66                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G67                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G68                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G69                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G70                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G71                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G72                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G73                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G74                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G75                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G76                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G77                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G78                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G79                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G80                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G81                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6779CW-G82                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G83                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G84                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G85                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G86                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G87                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G88                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G89                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G90                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G91                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G92                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G93                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G94                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G95                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G96                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779CW-G97                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-019                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-020                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-021                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-022                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-023                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-025                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-026                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-027                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-028                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-029                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-031                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-032                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-033                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-034                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-036                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-037                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-038                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-039                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-040                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-041                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| UPD6779W-042                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-043                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-046                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-047                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-048                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-049                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-050                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-051                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-052                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-053                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-054                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-055                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-056                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-058                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-060                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-061                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-062                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-063                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-064                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-065                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-066                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-067                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-068                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-069                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-070                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-071                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-072                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-073                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-074                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-075                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-076                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-077                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-078                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-079                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-080                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-081                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| UPD6779W-082                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-083                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-084                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-085                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-086                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-087                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-088                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-089                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-090                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-091                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-092                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-093                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-094                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-095                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-096                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-097                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-098                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-099                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-100                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-101                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-102                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-103                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-104                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-105                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-106                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-107                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-108                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-109                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-110                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-111                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-112                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-113                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-114                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-115                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-116                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-117                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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| UPD6779W-118                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-119                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-120                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-121                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-122                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-123                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-124                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-125                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-126                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-127                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-128                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-129                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-130                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-131                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6779W-132                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781W-032                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781W-041                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781W-051                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781YW-031                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781YW-041                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781YW-051                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6781YW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-006                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-010                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-011                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-012                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-013                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-014                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-015                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-016                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-017                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-018                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-019                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-020                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-021                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6783W-022                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-023                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-024                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-025                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-026                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-027                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-028                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-029                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-030                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-031                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-032                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-033                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-034                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-035                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-036                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-037                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-038                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-039                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-040                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-041                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-042                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-043                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-044                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-045                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-046                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-047                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-048                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-049                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-050                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-051                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-052                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-053                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-054                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-055                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-056                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-057                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6783W-058                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-059                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-060                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-061                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-062                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-063                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-064                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-065                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6783W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W-022                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W-023                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W-024                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W-025                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W-026                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785ZW-001                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785ZW-002                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785ZW-003                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785ZW-004                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785ZW-005                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6785ZW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6786DW                                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6786W                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-003                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-006                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-007                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-008                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-009                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-011                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-012                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-013                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-014                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-015                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-016                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-017                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6787W-018                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-019                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-020                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-021                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-022                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-023                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6787W-024                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6789W-004                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6789W-006                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6789W-007                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6789W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791AW-A03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791AW-A04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791AW-A05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791AW-A07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791AW-A08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791AW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C06                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C11                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C13                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C17                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C19                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C20                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C21                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C22                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C23                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6791CW-C24                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C25                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C26                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791CW-C27                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E02                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E06                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E11                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E13                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E17                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E19                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E20                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E21                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E22                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E23                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791EW-E24                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F04                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F05                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F06                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F10                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F11                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F13                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6791FW-F14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F17                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F19                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F20                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F21                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F22                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F23                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F24                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F25                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F26                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F27                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F28                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F29                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F30                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F31                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F32                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F33                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F34                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F35                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F36                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F37                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F38                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F39                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F40                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F41                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F42                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F43                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F44                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F45                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F46                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F47                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F48                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F49                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6791FW-F50                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F51                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F52                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F53                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F54                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F55                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F56                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F57                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F58                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F59                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F60                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F61                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F62                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F63                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F64                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F65                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F66                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F67                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F68                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F69                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F70                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F71                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F72                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791FW-F73                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-004                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-005                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-006                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-007                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-009                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-010                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-011                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-013                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-014                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-015                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-016                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-017                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6791W-021                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-022                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-026                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-027                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-028                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-029                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-030                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-031                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-032                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-033                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6791W-034                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6793W-004                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6793W-006                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6793W-007                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6793W-008                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6793W-009                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795AW-004                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795AW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795ZW-001                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795ZW-002                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795ZW-003                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795ZW-004                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795ZW-005                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6795ZW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6798W                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-004                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-005                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-006                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-007                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-008                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-009                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-010                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-011                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-012                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-013                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-014                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6799W-015                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-016                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-017                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6799W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801AW-A02                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801AW-A03                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-011                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-014                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-015                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-016                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-017                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-018                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-019                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-020                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-021                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-022                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-023                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-024                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6801W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A07                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A08                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A09                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A10                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A11                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A12                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A13                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A14                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A15                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A16                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A17                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A18                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A19                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A20                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-A21                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803AW-XXX                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6803W-007                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD6803W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6821W                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6821W-011                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6821W-XXX                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6821ZW-001                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD6821ZW-004                                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD68228GK(A2)-901-GAK-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD68F00AW                                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD703111AGM-10-UEU-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD703111AGM-15-UEU-M1-A             |
| UPD703111AGM-15-UEU-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD703111AGM-15-UEU-M1-A             |
| UPD703111BGM-15-UEU-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD703111BGM-15-UEU-M1-A             |
| UPD703111GM-15-UEU-A                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD703111GM-15-UEU-M1-A              |
| UPD78F0400GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA-GAM-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0400GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(R)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0401GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0401GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0402GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0403GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0403GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0410GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA-601-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0411GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(R)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0412GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0412GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0413GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0420GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-GAG-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0420GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-GAG-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0421GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0422GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0422GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(S)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0423GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0430GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0430GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0431GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(S)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0432GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0432GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(R)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(R)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(R)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(R)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(S)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(S)-XXX-GAG-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(S)-XXX-GAG-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(S)-XXX-GAG-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB(S)-XXX-GAG-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB-XXX-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB-XXX-GAG-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB-XXX-GAG-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0433GB-XXX-GAG-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(R)-011-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0441GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0441GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0442GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0442GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0443GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0443GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0444GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0444GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0445GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0451GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0451GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GA(S)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0452GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0452GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0453GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0453GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GA(S)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0454GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0454GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0455GB-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(R)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(R)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(R)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(R)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(S)-GAJ-M1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(S)-XXX-GAJ-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(S)-XXX-GAJ-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(S)-XXX-GAJ-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK(S)-XXX-GAJ-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK-XXX-GAJ-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK-XXX-GAJ-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK-XXX-GAJ-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0455GK-XXX-GAJ-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0471GK(R)-011-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-601-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-602-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-603-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-604-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-605-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-608-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-609-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-611-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-612-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-613-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-614-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-615-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0471GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0472GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(R)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-602-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-603-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-606-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-607-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-608-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-609-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-610-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-611-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0472GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0473GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(R)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0473GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0474GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(R)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0474GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0475GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(R)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0475GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0481GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(R)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK-GAK-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0481GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0482GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0482GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(R)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0483GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0483GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0484GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0484GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(R)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(R)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(R)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(R)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC-XXX-GAD-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC-XXX-GAD-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC-XXX-GAD-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GC-XXX-GAD-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(R)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(R)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(R)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(R)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0485GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0485GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0491GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0492GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0493GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GC(S)-XXX-GAD-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GC(S)-XXX-GAD-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GC(S)-XXX-GAD-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GC(S)-XXX-GAD-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK(S)-XXX-GAK-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK(S)-XXX-GAK-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK(S)-XXX-GAK-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK(S)-XXX-GAK-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK-XXX-GAK-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK-XXX-GAK-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK-XXX-GAK-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0494GK-XXX-GAK-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0495GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F0500AMC(R)-XXX-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC(R)-XXX-CAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC(S)-XXX-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC(S)-XXX-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC(S)-XXX-CAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA2-XXX-CAB-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA2-XXX-CAB-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA2-XXX-CAB-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA-C01-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA-CAB-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0500AMCA-XXX-CAB-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC-T01-CAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC-XXX-CAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC-XXX-CAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0500AMC-XXX-CAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(R)-015-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(R)-XXX-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(S)-413-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(S)-420-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(S)-421-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(S)-427-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(S)-XXX-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC(S)-XXX-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-CAB-E1-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-CAB-E2-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-CAB-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-CAB-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-XXX-CAB-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-XXX-CAB-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-CAB-M1-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-CAB-Q-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-CAB-R-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-XXX-CAB-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-XXX-CAB-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC-XXX-CAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0501AMC-XXX-CAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0502AMC(R)-XXX-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(R)-XXX-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(R)-XXX-CAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(S)-403-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(S)-404-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(S)-405-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(S)-407-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(S)-XXX-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC(S)-XXX-CAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA2-XXX-CAB-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA2-XXX-CAB-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-CAB-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-CAB-E1-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-CAB-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-XXX-CAB-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC-XXX-CAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC-XXX-CAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0502AMC-XXX-CAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC(R)-XXX-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC(R)-XXX-CAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC(R)-XXX-CAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC(S)-XXX-CAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC(S)-XXX-CAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA2-CAB-E1-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA2-XXX-CAB-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA2-XXX-CAB-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA2-XXX-CAB-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0503AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-C08-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-CAB-E2-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-CAB-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-CAB-Q-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-XXX-CAB-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-XXX-CAB-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC-XXX-CAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC-XXX-CAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0503AMC-XXX-CAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-CAB-E1-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-CAB-E1-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-CAB-E2-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-CAB-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-CAB-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-CAB-Q-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-XXX-CAB-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-XXX-CAB-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-XXX-CAB-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA-CAB-Q-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0504AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA2-CAB-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA2-XXX-CAB-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA2-XXX-CAB-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA2-XXX-CAB-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0505AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-CAB-E2-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-CAB-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-XXX-CAB-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-XXX-CAB-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0505AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-CAB-E1-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-CAB-E2-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-CAB-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-CAB-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-CAB-Q-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-XXX-CAB-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-XXX-CAB-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-XXX-CAB-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-XXX-CAB-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA2-XXX-CAB-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-CAB-E1-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-CAB-E2-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-CAB-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-CAB-Q-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-XXX-CAB-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0506AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-CAB-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-XXX-CAB-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-XXX-CAB-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-XXX-CAB-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-XXX-CAB-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-XXX-CAB-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0507AMCA-XXX-CAB-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(R)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0511AGA(R)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(R)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(R)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(S)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(S)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(S)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(S)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA(S)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA-608-GAM-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-GAM-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-GAM-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-C08-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-C09-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-C13-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-C14-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA-XXX-GAM-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA-XXX-GAM-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA-XXX-GAM-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGA-XXX-GAM-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0511AGA-XXX-GAF-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(R)-XXX-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(R)-XXX-GAF-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(R)-XXX-GAF-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(R)-XXX-GAF-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(R)-XXX-GAF-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(S)-XXX-GAF-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(S)-XXX-GAF-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(S)-XXX-GAF-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB(S)-XXX-GAF-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-GAF-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA2-XXX-GAF-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-GAF-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGBA-XXX-GAF-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB-XXX-GAF-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB-XXX-GAF-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB-XXX-GAF-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AGB-XXX-GAF-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0511AMC(R)-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(R)-XXX-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(R)-XXX-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(R)-XXX-GAA-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-437-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-440-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-441-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-443-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-XXX-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC(S)-XXX-GAA-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-GAA-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-XXX-GAA-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-XXX-GAA-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-XXX-GAA-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-XXX-GAA-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-XXX-GAA-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA2-XXX-GAA-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA-XXX-GAA-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA-XXX-GAA-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA-XXX-GAA-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA-XXX-GAA-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA-XXX-GAA-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMCA-XXX-GAA-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC-GAA-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC-XXX-GAA-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC-XXX-GAA-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0511AMC-XXX-GAA-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(R)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(R)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(R)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(R)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(R)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(S)-410-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(S)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(S)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0512AGA(S)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(S)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA(S)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-GAM-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-GAM-Q-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-C05-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-GAM-C-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-GAM-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-GAM-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA-XXX-GAM-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA-XXX-GAM-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA-XXX-GAM-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA-XXX-GAM-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGA-XXX-GAM-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(R)-XXX-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(R)-XXX-GAF-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(R)-XXX-GAF-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(R)-XXX-GAF-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(R)-XXX-GAF-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0512AGB(S)-422-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(S)-XXX-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(S)-XXX-GAF-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(S)-XXX-GAF-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(S)-XXX-GAF-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB(S)-XXX-GAF-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-GAF-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA2-XXX-GAF-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-GAF-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGBA-XXX-GAF-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB-XXX-GAF-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB-XXX-GAF-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB-XXX-GAF-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB-XXX-GAF-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AGB-XXX-GAF-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(R)-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(R)-XXX-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(R)-XXX-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0512AMC(R)-XXX-GAA-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-426-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-428-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-433-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-XXX-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-XXX-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC(S)-XXX-GAA-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-GAA-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-XXX-GAA-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-XXX-GAA-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-XXX-GAA-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-XXX-GAA-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-XXX-GAA-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA2-XXX-GAA-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-GAA-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-GAA-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-XXX-GAA-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-XXX-GAA-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-XXX-GAA-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-XXX-GAA-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-XXX-GAA-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMCA-XXX-GAA-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC-GAA-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC-XXX-GAA-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC-XXX-GAA-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0512AMC-XXX-GAA-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-GAM-M1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-R01-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(R)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(S)-432-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(S)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0513AGA(S)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(S)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA(S)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-GAM-E2-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-GAM-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-C03-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-C08-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-C09-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-C10-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-GAM-C-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-GAM-E2-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-GAM-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA-XXX-GAM-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA-XXX-GAM-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGA-XXX-GAM-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0513AGA-XXX-GAF-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(R)-XXX-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(R)-XXX-GAF-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(R)-XXX-GAF-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(R)-XXX-GAF-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(R)-XXX-GAF-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-431-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-434-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-435-GAF-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-XXX-GAF-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-XXX-GAF-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-XXX-GAF-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB(S)-XXX-GAF-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-GAF-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA2-XXX-GAF-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-GAF-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGBA-XXX-GAF-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB-XXX-GAF-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0513AGB-XXX-GAF-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB-XXX-GAF-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB-XXX-GAF-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AGB-XXX-GAF-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(R)-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(R)-XXX-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(R)-XXX-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(R)-XXX-GAA-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(S)-XXX-GAA-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(S)-XXX-GAA-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC(S)-XXX-GAA-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-GAA-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-GAA-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-XXX-GAA-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-XXX-GAA-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-XXX-GAA-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-XXX-GAA-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-XXX-GAA-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMCA-XXX-GAA-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC-GAA-E1-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC-XXX-GAA-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC-XXX-GAA-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513AMC-XXX-GAA-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0513DAMC-GAA-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(R)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(R)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(R)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(R)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(R)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-424-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-425-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-444-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-449-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA(S)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0514AGA(S)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-GAM-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-C07-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-C09-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-C11-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-GAM-C-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-GAM-E2-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-GAM-Q-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA-XXX-GAM-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA-XXX-GAM-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA-XXX-GAM-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA-XXX-GAM-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0514AGA-XXX-GAM-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(A)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(R)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(R)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(R)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(R)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0515AGA(R)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(S)-XXX-GAM-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(S)-XXX-GAM-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(S)-XXX-GAM-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(S)-XXX-GAM-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA(S)-XXX-GAM-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C04-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C05-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C06-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C12-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C15-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C19-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C20-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C22-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C25-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C26-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C28-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-C30-GAM-C-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-GAM-C-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-GAM-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0515AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA-GAM-E2-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA-XXX-GAM-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA-XXX-GAM-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA-XXX-GAM-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA-XXX-GAM-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGA-XXX-GAM-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGB-GAF-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515AGB-GAF-E2-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0515DAGB-GAF-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0516AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0517AGAA2-XXX-GAM-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA2-XXX-GAM-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0517AGAA-XXX-GAM-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(R)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(R)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(S)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-GAG-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0521AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-GAG-E1-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB-XXX-GAG-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB-XXX-GAG-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB-XXX-GAG-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0521AGB-XXX-GAG-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(R)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(R)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(S)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-GAG-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0522AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-GAG-E2-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB-GAG-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB-XXX-GAG-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB-XXX-GAG-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB-XXX-GAG-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB-XXX-GAG-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0522AGB-XXX-GAG-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(R)-R01-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(R)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(S)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0523AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-GAG-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-C01-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-GAG-Q-G                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB-GAG-E3-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB-XXX-GAG-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB-XXX-GAG-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB-XXX-GAG-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB-XXX-GAG-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0523AGB-XXX-GAG-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(R)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0524AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-GAG-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-GAG-E3-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB-GAG-E3-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB-XXX-GAG-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB-XXX-GAG-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB-XXX-GAG-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB-XXX-GAG-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0524AGB-XXX-GAG-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(R)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0525AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-GAG-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-GAG-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB-GAG-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB-GAG-E3-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB-XXX-GAG-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB-XXX-GAG-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0525AGB-XXX-GAG-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB-XXX-GAG-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0525AGB-XXX-GAG-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(R)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(R)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(S)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-C05-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-C06-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0526AGBA-XXX-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB-GAG-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB-XXX-GAG-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB-XXX-GAG-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB-XXX-GAG-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB-XXX-GAG-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0526AGB-XXX-GAG-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(R)-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(R)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(R)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(R)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(R)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(R)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(S)-XXX-GAG-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(S)-XXX-GAG-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(S)-XXX-GAG-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(S)-XXX-GAG-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB(S)-XXX-GAG-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA2-XXX-GAG-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-GAG-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0527AGBA-XXX-GAG-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGBA-XXX-GAG-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527AGB-GAG-E1-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0527DAGB-GAG-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(R)-014-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-GAH-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0531AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(S)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0531AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-GAL-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC-GAL-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0531AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-GAJ-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-GAJ-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0531AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0532AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-GAH-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-C01-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-C02-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0532AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(S)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(S)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-GAL-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0532AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC-GAL-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-GAJ-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0532AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-GAJ-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0532AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0533AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-420-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-431-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-432-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-434-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-436-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-438-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-439-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-440-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-GAH-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-GAH-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0533AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(S)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(S)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0533AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC-GAL-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-GAJ-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0533AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0533AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AFC-AA1-A                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0534AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-GAH-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(S)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0534AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-GAL-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0534AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-GAJ-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-GAJ-E3-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-GAJ-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0534AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0535AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(S)-455-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-GAH-E2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-GAH-E3-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-GAH-X2-Q-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0535AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB-GAH-M1-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(S)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-GAL-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0535AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-GAJ-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0535AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0535AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0536AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(S)-405-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0536AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(S)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(S)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC-GAL-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0536AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-GAJ-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-GAJ-E3-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0536AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0536AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(R)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(R)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(R)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(R)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(S)-XXX-HAB-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(S)-XXX-HAB-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(S)-XXX-HAB-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA(S)-XXX-HAB-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA-XXX-HAB-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA-XXX-HAB-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA-XXX-HAB-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGA-XXX-HAB-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(A)-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(R)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(R)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(R)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(R)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(S)-XXX-GAH-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(S)-XXX-GAH-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(S)-XXX-GAH-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB(S)-XXX-GAH-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-GAH-E2-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-GAH-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0537AGBA2-XXX-GAH-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA2-XXX-GAH-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGBA-XXX-GAH-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB-XXX-GAH-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB-XXX-GAH-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB-XXX-GAH-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGB-XXX-GAH-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(R)-GAL-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(R)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(R)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(R)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(R)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(R)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(S)-XXX-GAL-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(S)-XXX-GAL-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(S)-XXX-GAL-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(S)-XXX-GAL-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC(S)-XXX-GAL-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-GAL-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0537AGCA2-XXX-GAL-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA2-XXX-GAL-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-GAL-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGCA-XXX-GAL-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC-GAL-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC-XXX-GAL-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC-XXX-GAL-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC-XXX-GAL-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC-XXX-GAL-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGC-XXX-GAL-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(R)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(R)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(R)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(R)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(S)-XXX-GAJ-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(S)-XXX-GAJ-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(S)-XXX-GAJ-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK(S)-XXX-GAJ-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0537AGKA2-XXX-GAJ-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA2-XXX-GAJ-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-GAJ-E3-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-GAJ-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGKA-XXX-GAJ-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK-XXX-GAJ-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK-XXX-GAJ-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK-XXX-GAJ-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537AGK-XXX-GAJ-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537DAGA-HAB-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0537DAGC-GAL-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(R)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(R)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(R)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(R)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(S)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(S)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(S)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC(S)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0544AGCA2-GAD-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA2-XXX-GAD-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-GAD-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGCA-XXX-GAD-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC-GAD-E1-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC-XXX-GAD-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC-XXX-GAD-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC-XXX-GAD-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGC-XXX-GAD-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(R)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(R)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(R)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(R)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(S)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(S)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0544AGK(S)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK(S)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA2-XXX-GAK-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGKA-XXX-GAK-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK-XXX-GAK-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK-XXX-GAK-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK-XXX-GAK-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0544AGK-XXX-GAK-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(R)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(R)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(R)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(R)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0545AGC(S)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(S)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(S)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC(S)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-GAD-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA2-XXX-GAD-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGCA-XXX-GAD-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC-XXX-GAD-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC-XXX-GAD-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC-XXX-GAD-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGC-XXX-GAD-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(R)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(R)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(R)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(R)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0545AGK(S)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(S)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(S)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK(S)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-GAK-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA2-XXX-GAK-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGKA-XXX-GAK-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK-XXX-GAK-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK-XXX-GAK-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK-XXX-GAK-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0545AGK-XXX-GAK-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(R)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(R)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(R)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(R)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0546AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(S)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(S)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(S)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC(S)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-GAD-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA2-XXX-GAD-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-GAD-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGCA-XXX-GAD-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC-XXX-GAD-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC-XXX-GAD-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC-XXX-GAD-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGC-XXX-GAD-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(R)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(R)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0546AGK(R)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(R)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(S)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(S)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(S)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK(S)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-GAK-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA2-XXX-GAK-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGKA-XXX-GAK-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK-XXX-GAK-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK-XXX-GAK-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK-XXX-GAK-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0546AGK-XXX-GAK-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(R)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0547AGC(R)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(R)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(R)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(S)-XXX-GAD-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(S)-XXX-GAD-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(S)-XXX-GAD-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC(S)-XXX-GAD-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-GAD-E1-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-GAD-G                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA2-XXX-GAD-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGCA-XXX-GAD-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC-XXX-GAD-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC-XXX-GAD-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC-XXX-GAD-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGC-XXX-GAD-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0547AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(R)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(R)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(R)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(R)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(S)-XXX-GAK-E1-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(S)-XXX-GAK-E2-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(S)-XXX-GAK-E3-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK(S)-XXX-GAK-E4-AX                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E1-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E1-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E2-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E2-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E3-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E3-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E4-G                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-E4-Q-G                                | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-G                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA2-XXX-GAK-Q-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E1-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E1-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E2-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E2-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E3-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E3-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E4-G                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-E4-Q-G                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGKA-XXX-GAK-Q-G                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK-XXX-GAK-E1-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK-XXX-GAK-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK-XXX-GAK-E3-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547AGK-XXX-GAK-E4-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0547DAGC-GAD-AX                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0550MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(R)-FAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0550MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(R)-FAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(S)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0551MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(S)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0552MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0555MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0555MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0556MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(S)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA-FAA-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0557MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0560MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0560MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0561MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0562MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0565MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0566MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0566MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-016-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-019-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-022-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-023-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-024-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0567MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC-CAB-M1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0571MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0572MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0573MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0573MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0576MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0577MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0578MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(R)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0581GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(R)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(R)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(R)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(R)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(S)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(S)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(S)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(S)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB(S)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB-GAF-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB-XXX-GAF-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB-XXX-GAF-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0581GB-XXX-GAF-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(R)-011-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(R)-011-GAM-M1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0582GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(R)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(R)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(R)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(R)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(S)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(S)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(S)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB(S)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB-GAF-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB-XXX-GAF-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB-XXX-GAF-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0582GB-XXX-GAF-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0583GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(R)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(R)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(R)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(R)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-305-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-306-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB(S)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB-GAF-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB-XXX-GAF-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB-XXX-GAF-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0583GB-XXX-GAF-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(R)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0586GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(R)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(R)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(R)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(R)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(S)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(S)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(S)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB(S)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB-GAF-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB-XXX-GAF-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB-XXX-GAF-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0586GB-XXX-GAF-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(R)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0587GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(R)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(R)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(R)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(R)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(S)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(S)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(S)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB(S)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB-GAF-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB-XXX-GAF-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB-XXX-GAF-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0587GB-XXX-GAF-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(R)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(R)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(R)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(R)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(R)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(R)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0588GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(R)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(R)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(R)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(R)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(S)-XXX-GAF-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(S)-XXX-GAF-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(S)-XXX-GAF-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB(S)-XXX-GAF-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB-GAF-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB-XXX-GAF-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB-XXX-GAF-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0588GB-XXX-GAF-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0590MC(S)-CAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0590MC-CAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0591MC(S)-CAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0592GA(S)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0592GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0593GA(S)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0593GA-GAM-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0730MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0730MC-601-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0730MC-CAB-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0730MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0730MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(S)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0740MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0740MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0741MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(R)-011-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0742MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0743MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0744MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0744MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0745MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0746MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(S)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0750MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0750MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA-FAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0751MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(R)-FAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(R)-FAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(R)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(R)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(R)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(S)-XXX-FAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(S)-XXX-FAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA(S)-XXX-FAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA-XXX-FAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA-XXX-FAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0752MA-XXX-FAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0753MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC(R)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC(R)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0754MC(R)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC(S)-XXX-CAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC(S)-XXX-CAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC(S)-XXX-CAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC-XXX-CAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC-XXX-CAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0754MC-XXX-CAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0755MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0756MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-GAM-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-GAM-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-GAM-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-GAM-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-GAM-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0760GA-GAM-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-GAM-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-GAM-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-GAM-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0760GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-GAM-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-GAM-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-GAM-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-GAM-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-GAM-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-GAM-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-GAM-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-GAM-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-GAM-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0761GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-GAM-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-GAM-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-GAM-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-GAM-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-GAM-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-XXX-GAM-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-XXX-GAM-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0762GA(S)-XXX-GAM-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-XXX-GAM-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA(S)-XXX-GAM-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-GAM-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-GAM-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-GAM-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-GAM-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-GAM-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-XXX-GAM-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-XXX-GAM-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-XXX-GAM-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-XXX-GAM-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0762GA-XXX-GAM-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-GAH-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-GAH-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-GAH-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-GAH-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0763GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F0764GB(S)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-GAH-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-GAH-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-GAH-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-GAH-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0764GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-GAH-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-GAH-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-GAH-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-GAH-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F0765GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1000GB(R)-011-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1000GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1001GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1001GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1001GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1001GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1001GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1001GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GA(R)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1002GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GA(R)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GA-XXX-HAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1003GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1004GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1004GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1004GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1004GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1005GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1005GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1005GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1005GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1006GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1006GB(S)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1006GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1006GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1006GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1007GA(R)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GA(S)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GA-XXX-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1007GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GA(R)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GA(S)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GA-XXX-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1008GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA(R)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA(S)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA(S)-XXX-HAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA(S)-XXX-HAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA(S)-XXX-HAB-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA(S)-XXX-HAB-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GA-XXX-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GB(R)-011-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1009GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1009GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1010GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GK(R)-GAK-M1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1011GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GC(R)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GC(S)-XXX-GAD-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GC-XXX-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GK(R)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GK(S)-XXX-GAK-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1012GK-XXX-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GC(R)-XXX-UEU-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GC(S)-XXX-UEU-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GC-XXX-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GF(R)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1013GF(R)-XXX-GAS-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GF(S)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GF(S)-XXX-GAS-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GF-GAS-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1013GF-XXX-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GC(R)-XXX-UEU-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GC(S)-XXX-UEU-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GC-XXX-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GF(R)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GF(R)-XXX-GAS-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GF(S)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GF(S)-XXX-GAS-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GF-GAS-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1014GF-XXX-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-HAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-HAA-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-HAA-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-HAA-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-XXX-HAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-XXX-HAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-XXX-HAA-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(R)-XXX-HAA-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-HAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-HAA-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-HAA-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-HAA-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-XXX-HAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-XXX-HAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-XXX-HAA-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA(S)-XXX-HAA-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-HAA-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-HAA-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1022GA-HAA-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-HAA-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-XXX-HAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-XXX-HAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-XXX-HAA-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1022GA-XXX-HAA-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-HAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-HAA-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-HAA-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-HAA-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-XXX-HAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-XXX-HAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-XXX-HAA-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(R)-XXX-HAA-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-HAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-HAA-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-HAA-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-HAA-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-XXX-HAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-XXX-HAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-XXX-HAA-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA(S)-XXX-HAA-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-HAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-HAA-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-HAA-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-HAA-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-HAA-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-XXX-HAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-XXX-HAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1023GA-XXX-HAA-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1023GA-XXX-HAA-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-HAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-HAA-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-HAA-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-HAA-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-XXX-HAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-XXX-HAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-XXX-HAA-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(R)-XXX-HAA-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-HAA-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-HAA-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-HAA-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-HAA-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-XXX-HAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-XXX-HAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-XXX-HAA-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA(S)-XXX-HAA-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-HAA-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-HAA-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-HAA-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-HAA-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-XXX-HAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-XXX-HAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-XXX-HAA-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1024GA-XXX-HAA-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-HAB-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-HAB-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-HAB-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-HAB-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1025GA(R)-XXX-HAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-XXX-HAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-XXX-HAB-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(R)-XXX-HAB-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-HAB-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-HAB-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-HAB-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-HAB-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-XXX-HAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-XXX-HAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-XXX-HAB-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA(S)-XXX-HAB-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-HAB-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-HAB-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-HAB-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-HAB-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-XXX-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-XXX-HAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-XXX-HAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-XXX-HAB-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GA-XXX-HAB-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1025GB(S)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-GAH-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-GAH-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-GAH-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-GAH-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1025GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-HAB-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-HAB-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-HAB-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-HAB-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-XXX-HAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-XXX-HAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-XXX-HAB-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(R)-XXX-HAB-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-HAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-HAB-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-HAB-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-HAB-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-HAB-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-XXX-HAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-XXX-HAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-XXX-HAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1026GA(S)-XXX-HAB-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA(S)-XXX-HAB-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-HAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-HAB-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-HAB-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-HAB-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-HAB-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-XXX-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-XXX-HAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-XXX-HAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-XXX-HAB-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GA-XXX-HAB-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(R)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-GAH-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-GAH-E2-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-GAH-E3-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-GAH-E4-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-XXX-GAH-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-XXX-GAH-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-XXX-GAH-E3-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB(S)-XXX-GAH-E4-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-GAH-E1-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-GAH-E2-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-GAH-E3-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-GAH-E4-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1026GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-XXX-GAH-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-XXX-GAH-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-XXX-GAH-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1026GB-XXX-GAH-E4-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1027GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1027GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1027GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1028GC(R)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1028GC(S)-GAD-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1028GC-GAD-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1029GF(R)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1029GF(S)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1029GF-GAS-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1030GF(R)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1030GF(S)-GAS-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1030GF-GAS-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1031AGA-GAM-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1031AGAR-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1031AGAR-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1031AGAS-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1031AGAS-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1031AGA-XXX-GAM-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1032AGA-GAM-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1032AGAR-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1032AGAR-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1032AGAS-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1032AGAS-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1032AGA-XXX-GAM-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1033AGA-GAM-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1033AGAR-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1033AGAR-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1033AGAS-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1033AGAS-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1033AGA-XXX-GAM-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1034AGA-GAM-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1034AGAR-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1034AGAR-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1034AGAS-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1034AGAS-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1034AGA-XXX-GAM-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1035AGA-GAM-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1035AGAR-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1035AGAR-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1035AGAS-GAM-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1035AGAS-XXX-GAM-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1035AGA-XXX-GAM-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1036AGB-GAH-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1036AGBR-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1036AGBR-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1036AGBS-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1036AGB-XXX-GAH-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1037AGB-GAH-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1037AGBR-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1037AGBR-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1037AGBS-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1037AGB-XXX-GAH-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1038AGB-GAH-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1038AGBR-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1038AGBR-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1038AGBS-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1038AGBS-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1038AGB-XXX-GAH-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1039AGB-GAH-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1039AGBR-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1039AGBR-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1039AGBS-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1039AGBS-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1039AGB-XXX-GAH-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1040AGB-GAH-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1040AGBR-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1040AGBR-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1040AGBS-GAH-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1040AGBS-XXX-GAH-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1040AGB-XXX-GAH-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1040GBR-GAH-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1041AGK-GAK-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1041AGKR-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1041AGKR-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1041AGKS-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1041AGKS-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1041AGK-XXX-GAK-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1042AGK-GAK-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1042AGKR-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1042AGKR-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1042AGKS-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1042AGKS-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1042AGK-XXX-GAK-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1043AGK-GAK-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1043AGKR-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1043AGKR-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1043AGKS-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1043AGKS-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1043AGK-XXX-GAK-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1044AGK-GAK-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1044AGKR-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1044AGKR-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1044AGKS-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1044AGKS-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1044AGK-XXX-GAK-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1045AGK-GAK-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1045AGKR-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1045AGKR-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1045AGKS-GAK-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1045AGKS-XXX-GAK-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1045AGK-XXX-GAK-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1046AGCR-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1046AGCR-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1046AGCS-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1046AGCS-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1046AGC-UEU-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1046AGC-XXX-UEU-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1047AGCR-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1047AGCR-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1047AGCS-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1047AGCS-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1047AGC-UEU-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1047AGC-XXX-UEU-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1048AGCR-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1048AGCR-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1048AGCS-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1048AGCS-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1048AGC-UEU-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1048AGC-XXX-UEU-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1049AGCR-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1049AGCR-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1049AGCS-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1049AGCS-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1049AGC-UEU-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1049AGC-XXX-UEU-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1050AGCR-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1050AGCR-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1050AGCS-UEU-G                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1050AGCS-XXX-UEU-G                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1050AGC-UEU-G                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1050AGC-XXX-UEU-G                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGB(A)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1142AGB-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGK(A)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1142GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGB(A)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGK(A)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGK(R)-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1143AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGB(A)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGK(A)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGK(R)-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGK(S)-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1144AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1145AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGA-HAB-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGB(A)-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGB(A)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGK(A)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1145AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGA(R)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGA(R)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGA(S)-HAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGA(S)-XXX-HAB-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGA-XXX-HAB-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGB(A)-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGB(A)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGB(R)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGB(S)-XXX-GAH-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGB-XXX-GAH-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGK(A)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGK(R)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGK(S)-XXX-GAJ-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1146AGK-XXX-GAJ-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC(A)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGK(A)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1152AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGK-GAK-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1152AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGC(A)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGK(A)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGK-GAK-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1153AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC(A)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC-GAD-M1-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGK(A)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGK(R)-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1154AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC(A)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC(A)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGK(A)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

| Exact Renesas Part # No other variation<br>is being impacted. | Notice Issue<br>Date | LTB / Withdrawn<br>Date | LTS / Obsolete<br>Date | Replacement / Similar /<br>Re-Design |
|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1155AGK-GAK-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1155AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC(A)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGK(A)-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGK(A)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1156AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1162AGC(A)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1162AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1162AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1162AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1163AGC(A)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1163AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1163AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1163AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1163AGF(S)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1163AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGC(A)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGF(R)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGF(R)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGF(S)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1164GF-GAS-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(A)-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(A)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(R)-016-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(R)-020-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(R)-022-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1165AGC(R)-024-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(R)-025-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(R)-026-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF(A)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF(R)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF(R)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF(S)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF(S)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1165AGF-XXX-GAS-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGC(A)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGF(A)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGF(R)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGF(R)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGF(S)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1166AGF-XXX-GAS-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC(A)-C01-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC(A)-C02-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC(A)-C05-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC(A)-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGF(R)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGF(R)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGF(S)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGF(S)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1167AGF-XXX-GAS-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC(A)-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1168AGC(A)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC(S)-307-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC(S)-312-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC(S)-315-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGC-XXX-UEU-E2-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGF(R)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGF(R)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGF(S)-GAS-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGF(S)-XXX-GAS-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGF-GAS-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1168AGF-XXX-GAS-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1174AGF(R)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1174AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1174AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1175AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1175AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1176AGF(A)-GAT-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1176AGF(R)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1176AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1176AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1177AGF(R)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1177AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1177AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1178AGF(R)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1178AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1178AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1184AGJ(R)-GAE-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1184AGJ(R)-XXX-GAE-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1184AGJ-GAE-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1186AGJ(R)-GAE-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1188AGJ(R)-GAE-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1188AGJ-GAE-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(R)-CAB-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1201MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(S)-CAB-M1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1201MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC-T01-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1203MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(R)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(R)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(R)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(S)-CAB-E1-AX                                     | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(S)-XXX-CAB-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(S)-XXX-CAB-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC(S)-XXX-CAB-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC-CAB-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC-XXX-CAB-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC-XXX-CAB-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1204MC-XXX-CAB-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211GB(S)-301-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC(R)-XXX-GAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1211MC(R)-XXX-GAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC(R)-XXX-GAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC(S)-GAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC(S)-XXX-GAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC(S)-XXX-GAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC(S)-XXX-GAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC-XXX-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC-XXX-GAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1211MC-XXX-GAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GA(R)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GA(S)-HAA-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GA-HAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GB(R)-GAF-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GB(R)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GB(S)-XXX-GAF-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GB-XXX-GAF-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213GB-XXX-GAF-E3-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC(R)-XXX-GAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC(R)-XXX-GAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC(R)-XXX-GAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC(S)-XXX-GAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC(S)-XXX-GAA-E1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC(S)-XXX-GAA-E2-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC-GAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC-XXX-GAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC-XXX-GAA-E1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1213MC-XXX-GAA-E2-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1214GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1214GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1214GA-HAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1214GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1215GA(R)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1215GA(S)-XXX-HAA-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1215GA-HAA-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1215GA-XXX-HAA-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1223GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1223GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1223GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1223GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1224GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1224GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1224GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1224GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1225GB(R)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1225GB(R)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1225GB(S)-GAG-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1225GB(S)-XXX-GAG-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1225GB-GAG-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1225GB-XXX-GAG-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GK(R)-GAJ-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1233GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1234GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GB(R)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GB(S)-XXX-GAH-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GB-GAH-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GB-XXX-GAH-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1235GK(R)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GK(S)-XXX-GAJ-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1235GK-XXX-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1500AGK(R)-GAK-M1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1500AGK(S)-GAK-M1-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1501AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1502AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1505AGC(R)-011-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1505AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1505AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1510AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGC(R)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGC(R)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGC(S)-GAD-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGC(S)-XXX-GAD-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGC-GAD-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGC-XXX-GAD-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1512AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1513AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1513AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1513AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1515AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1515AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1515AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1516AGF(R)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD78F1516AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1516AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1518AGF(R)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1518AGF(S)-XXX-GAT-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1518AGF-XXX-GAT-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD78F1846AGK(R)-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1846AGK(R)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1846AGK(S)-GAK-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1846AGK(S)-XXX-GAK-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1846AGK-GAK-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1846AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1847AGK-GAK-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1847AGK-XXX-GAK-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1848AGC(R)-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1848AGC(R)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1848AGC(S)-UEU-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1848AGC(S)-XXX-UEU-AX                                   | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1848AGC-UEU-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1848AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1849AGC-UEU-AX                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1849AGC-XXX-UEU-AX                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD78F1849GC(S)-XXX-UEU-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD79F0060AGK(R)-GAJ-AX                                       | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD79F0081GF(R)-012-GAT-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD79F0081GF(R)-012-GAT-M1-AX                                 | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD79F0081GF(R)-013-GAT-AX                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD79F0081GF(R)-GAT-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD79F0128GB(R)-GAH-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD79F0131GK(A)-GAK-AX                                        | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Gx,Ix,RA                        |
| UPD79F8453GK-GAJ-AX                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | RL78/Lx,RX                           |
| UPD800255F1-011-GN6-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD800295F1-723-DAC-M1-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD800477F1-411-EAM-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD800486F1-211-BN7-E1-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD800505F1-011-FNB-E2-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD800526F1-821-KNH-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| UPD800813F1-011-HN6-M1-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD808505F1-611-RNA-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD808512F1-641-DAA-E2-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD808512F1-641-DAA-A                |
| UPD808517F1-612-MNB-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD808517F1-612-MNB-M1-A             |
| UPD808595F1-S21-HN4-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD811014FA-G21-MN1-M1-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD812008F1-L12-KN5-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD812008F1-L12-KN5-M1-A             |
| UPD812304GC-D11-GDD-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD814000F1-D11-RN7-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD814000F1-D11-RN7-M1-A             |
| UPD814400GC-Q11-GBL-A                                         | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD814400GC-Q11-GBL-M1-A                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD85607F1-031-RN1-A                                          | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            | UPD85607F1-031-RN1-M1-A              |
| UPD86357S1-612-F6-A                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD86357S1-812-F6-A                                           | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| UPD9955F1-AA6-A                                               | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| WF6B-12A#204                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| Z1OMTG186A                                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| Z1OMTG196#N0                                                  | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| Z1PE0001                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| Z1PE0002                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| Z1PE0003                                                      | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |
| Z1ULMA2102                                                    | 1-Feb-2025           | 31-Dec-2025             | 31-Dec-2026            |                                      |

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|---------------------------------------------------------------|----------------------|-------------------------|------------------------|--------------------------------------|
| R2A25416SP#W1                                                 | 1-Feb-2025           | 31-Dec-2026             | 31-Dec-2029            |                                      |