

Product Change Notice (PCN)

Subject: Add Alternate Assembly Locations on Select VFQFPN Packages

Publication Date: 8/28/2024

Effective Date: 11/27/2024

Revision Description:

Initial Release

Description of Change:

Renesas is adding ASEK, Taiwan and GEI, Taiwan as the alternate Assembly locations in expanding the supply chain for select VFQFPN packages. The alternate assembly locations are the current qualified locations for Renesas. The material sets of the current and the alternate assembly locations are as shown in the below table. There will be changes in the material sets, equipment models and inspection items and sampling at alternate locations. The process flows are identical at all the qualified assembly locations.

There will be no changes in the moisture sensitive level as a result of this change.

Material Set / Assembly	Existing				Alternate	
	UTL, Thailand	UNIS, Malaysia	ASEK, Taiwan	ASEC, Taiwan	GEI, Taiwan	ASEK, Taiwan
VFQFPN-48, 9ZXL0853E						
Die Attach Epoxy	Henkel 8600	EN4900GC			CRM-1076DJ-G	
Bonding Wire	Copper wire	Copper wire			Copper wire	
Mold Compound	EME-G770HCD	EME-G770HJ			EME-G700HA	
VFQFPN-48, 9DML2855						
Die Attach Epoxy	Henkel 8600				CRM-1076DJ-G	
Bonding Wire	Copper wire				Copper wire	
Mold Compound	EME-G770HCD				EME-G700HA	
VFQFPN-28, RC19204A & VFQFPN-48, RC19208A						
Die Attach Epoxy	Henkel 8600				EN4900GC	
Bonding Wire	Copper wire				Copper wire	
Mold Compound	EME-G770HCD				EME-G700HA	
VFQFPN-24, 5P49V6965						
Die Attach Epoxy		EN4900GC	EN4900F	EN4900G	EN4900GC	
Bonding Wire		Copper wire	Copper wire	Copper wire	Copper wire	
Mold Compound		EME-G770HJ	EME-G631H	EME-G700LA	EME-G700HA	
VFQFPN-16, F2251						
Die Attach Epoxy	Ablecoat 8008HT					EN4900G
Bonding Wire	Copper wire					Copper wire
Mold Compound	EME-G770HCD					EME-G700LA

Affected Product List: Refer Appendix B.

Reason for Change:

The change is to create additional supplies to secure business continuity.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

Product Identification:

Assembly lot# prefix denote Assembly Location

Prefix	Assembly Location
R	ASEK Taiwan
GR	GEI Taiwan

Qualification Status: Completed. Refer Appendix A

Sample Availability Date: 8 weeks from sample booking date

Device Material Declaration: Available upon request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix A - Qualification Results

Affected Package: VFQFPN-24, VFQFPN-28, VFQFPN-48

Qual Vehicle: VFQFPN-48

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Assembly Location: GEI, Taiwan

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (110 °C/85% RH, 264 Hrs)	JESD22-A110	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

*Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

Affected Package: VFQFPN-48

Qual Vehicle: VFQFPN-88

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Assembly Location: GEI, Taiwan

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

*Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

Affected Package: VFQFPN-16

Qual Vehicle: VFQFPN-16

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Assembly Location: ASEK, Taiwan

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (110 °C/85% RH, 96 Hrs)	JESD22-A110	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 1, 260 °C	0/25	0/25	0/25

**Tests were subjected to Preconditioning per JESD22-A113 prior to stress test*

Appendix B – Affected Product List

5P49V6965A000NLGI	5P49V6965A166NLGI	5P49V6965A188NLGI	5P49V6965A210NLGI8
5P49V6965A000NLGI8	5P49V6965A166NLGI8	5P49V6965A188NLGI8	5P49V6965A211NLGI
5P49V6965A001NLGI	5P49V6965A167NLGI	5P49V6965A189NLGI	5P49V6965A211NLGI8
5P49V6965A001NLGI8	5P49V6965A167NLGI8	5P49V6965A189NLGI8	5P49V6965A212NLGI
5P49V6965A005NLGI	5P49V6965A168NLGI	5P49V6965A190NLGI	5P49V6965A212NLGI8
5P49V6965A101NLGI	5P49V6965A168NLGI8	5P49V6965A190NLGI8	5P49V6965A214NLGI
5P49V6965A101NLGI8	5P49V6965A169NLGI	5P49V6965A191NLGI	5P49V6965A214NLGI8
5P49V6965A102NLGI	5P49V6965A169NLGI8	5P49V6965A191NLGI8	5P49V6965A215NLGI
5P49V6965A102NLGI8	5P49V6965A170NLGI	5P49V6965A192NLGI	5P49V6965A215NLGI8
5P49V6965A110NLGI	5P49V6965A170NLGI8	5P49V6965A192NLGI8	5P49V6965A216NLGI
5P49V6965A110NLGI8	5P49V6965A171NLGI	5P49V6965A193NLGI	5P49V6965A216NLGI8
5P49V6965A111NLGI	5P49V6965A171NLGI8	5P49V6965A193NLGI8	5P49V6965A217NLGI
5P49V6965A111NLGI8	5P49V6965A172NLGI	5P49V6965A194NLGI	5P49V6965A217NLGI8
5P49V6965A112NLGI	5P49V6965A172NLGI8	5P49V6965A194NLGI8	5P49V6965A218NLGI
5P49V6965A112NLGI8	5P49V6965A174NLGI8	5P49V6965A195NLGI	5P49V6965A218NLGI8
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5P49V6965A151NLGI8	5P49V6965A175NLGI8	5P49V6965A196NLGI	5P49V6965A219NLGI8
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5P49V6965A152NLGI8	5P49V6965A176NLGI8	5P49V6965A197NLGI	5P49V6965A220NLGI8
5P49V6965A153NLGI	5P49V6965A177NLGI	5P49V6965A197NLGI8	5P49V6965A221NLGI
5P49V6965A153NLGI8	5P49V6965A177NLGI8	5P49V6965A199NLGI	5P49V6965A221NLGI8
5P49V6965A154NLGI	5P49V6965A178NLGI	5P49V6965A199NLGI8	5P49V6965A222NLGI
5P49V6965A154NLGI8	5P49V6965A178NLGI8	5P49V6965A200NLGI	5P49V6965A222NLGI8
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5P49V6965A158NLGI	5P49V6965A181NLGI	5P49V6965A202NLGI8	5P49V6965A225NLGI
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5P49V6965A233NLGI8	5P49V6965A255NLGI	5P49V6965A277NLGI8	5P49V6965A300NLGI
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5P49V6965A235NLGI	5P49V6965A256NLGI8	5P49V6965A279NLGI	5P49V6965A301NLGI8
5P49V6965A235NLGI8	5P49V6965A257NLGI	5P49V6965A279NLGI8	5P49V6965A302NLGI
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