



Product Change Notification: CAAN-17JHA0978

Date:

20-Feb-2025

Product Category:

Linear Regulators

Notification Subject:

CCB 7364.011 Initial Notice: Qualification of Microchip Technology Gresham – Fab 4 (GRTM) as a new fabrication location for selected MCP1702, MCP1703 and MCP1703A device families available in various packages.

Affected CPNs:

[CAAN-17JHA0978_Affected_CPN_02202025.pdf](#)

[CAAN-17JHA0978_Affected_CPN_02202025.csv](#)

PCN Status: Initial Notification

PCN Type: Manufacturing Change

Microchip Parts Affected: Please open one of the files found in the Affected CPNs section.

Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change: Qualification of Microchip Technology Gresham – Fab 4 (GRTM) as a new fabrication location for selected MCP1702, MCP1703 and MCP1703A device families available in various packages.

Pre and Post Summary Changes:

	Pre Change	Post Change
Fabrication Site*	Microchip Technology Tempe – Fab 2 (TMGR)	Microchip Technology Gresham – Fab 4 (GRTM)
Wafer Size	8"	8"

Impacts to Datasheet: None

Change Impact: None

Reason for Change: To improve manufacturability and on time delivery performance by qualifying a new fabrication location (GRTM - FAB 4), which is a Microchip-owned facility that offers significant expansion potential to better meet future client demand. *Note: The attached file called Tempe_Fab2_IATF_Decertification is for the manufacturing site deactivation of Microchip Technology Tempe – Fab 2 (TMGR), contact your local Microchip sales office for inquiries.

Change Implementation Status: In Progress

Estimated Qualification Completion Date: August 2025

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Timetable Summary:

	February 2025					>	August 2025				
Work Week	05	06	07	08	09		32	33	34	35	36
Initial PCN Issue Date				X							
Qual Report Availability									X		
Final PCN Issue Date									X		

Method to Identify Change: Traceability Code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History: February 20, 2025: Issued initial notification.

Note: The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable product.

Attachments:

Tempe-Fab2-IATF-Decertification.pdf
PCN_CAAN-17JHA0978_Qualification_Plan.pdf

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our **PCN home page** select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the **PCN FAQ** section.

If you wish to change your PCN profile, including opt out, please go to the **PCN home page** select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

MCP1703T-4502E/CB

MCP1703T-4502E/MB

MCP1703T-5001E/CB

MCP1703T-5001E/MB

MCP1703T-5002E/CB

MCP1703T-5002E/CBHAZ

MCP1703T-5002E/CBVAO

MCP1703T-5002E/DB

MCP1703T-5002E/MB

MCP1703T-5002E/MC

MCP1703T-5002E/MCAAC

MCP1702-1202E/TO

MCP1702-1502E/TO

MCP1702-1802E/TO

MCP1702-2502E/TO

MCP1702-2802E/TO

MCP1702-3002E/TO

MCP1702-3302E/TO

MCP1702-3602E/TO

MCP1702-4002E/TO

MCP1702-4002E/TOVAO

MCP1702-5002E/TO

MCP1702RT-5002E/MB

MCP1702T-1202E/CB

MCP1702T-1202E/MB

MCP1702T-1502E/CB

MCP1702T-1502E/MB

MCP1702T-1802E/CB

MCP1702T-1802E/MB

MCP1702T-2102E/CB

MCP1702T-2102E/MB

MCP1702T-2202E/CB

MCP1702T-2302E/CB

MCP1702T-2502E/CB

MCP1702T-2502E/MB

MCP1702T-2702E/CB

MCP1702T-2802E/CB

MCP1702T-2802E/MB

MCP1702T-3002E/CB

MCP1702T-3002E/MB

MCP1702T-3202E/MB

MCP1702T-3302E/CB

MCP1702T-3302E/CBVAO

MCP1702T-3302E/MB

MCP1702T-3602E/CB

MCP1702T-3602E/MB

MCP1702T-3752E/MB

MCP1702T-4002E/CB

MCP1702T-4002E/CBVAO

MCP1702T-4002E/MB

MCP1702T-4101E/CB

MCP1702T-4202E/MB

MCP1702T-4502E/CB

MCP1702T-4702E/CB

MCP1702T-5001E/MB

MCP1702T-5002E/CB

MCP1702T-5002E/MB

MCP1702T-5002E/MBVAO

MCP1702T-5102E/CB

MCP1703-1202E/DB

MCP1703-1502E/DB

MCP1703-1802E/DB

MCP1703-2502E/DB

MCP1703-2802E/DB

MCP1703-3002/WAAA

MCP1703-3002E/DB

MCP1703-3302E/DB

MCP1703-3302E/TO

MCP1703-4002E/DB

MCP1703-5002E/DB

MCP1703A-1202E/DB

MCP1703A-1202E/MC

MCP1703A-1502E/DB

MCP1703A-1502E/MC

MCP1703A-1802E/DB

MCP1703A-1802E/MC

MCP1703A-2052E/DB

MCP1703A-2502E/DB

MCP1703A-2502E/MC

MCP1703A-2802E/DB

MCP1703A-2802E/MC

MCP1703A-3002E/DB

MCP1703A-3002E/MC

MCP1703A-3072E/DB

MCP1703A-3302E/DB

MCP1703A-3302E/MC

MCP1703A-4002E/DB

MCP1703A-4002E/MC

MCP1703A-4102E/DB

MCP1703A-5002E/DB

MCP1703A-5002E/DBVAO

MCP1703A-5002E/MC

MCP1703AT-1202E/CB

MCP1703AT-1202E/DB

MCP1703AT-1202E/MB

MCP1703AT-1202E/MC

MCP1703AT-1502E/CB

MCP1703AT-1502E/DB

MCP1703AT-1502E/MB

MCP1703AT-1502E/MC

MCP1703AT-1802E/CB

MCP1703AT-1802E/DB

MCP1703AT-1802E/MB

MCP1703AT-1802E/MBVAO

MCP1703AT-1802E/MC

MCP1703AT-1852E/MC

MCP1703AT-2052E/CB

MCP1703AT-2052E/DB

MCP1703AT-2052E/MB

MCP1703AT-2102E/CB

MCP1703AT-2502E/CB

MCP1703AT-2502E/DB

MCP1703AT-2502E/MB

MCP1703AT-2502E/MC

MCP1703AT-2502E/MCVAO

MCP1703AT-2802E/CB

MCP1703AT-2802E/DB

MCP1703AT-2802E/MB

MCP1703AT-2802E/MC

MCP1703AT-3002E/CB

MCP1703AT-3002E/DB

MCP1703AT-3002E/MB

MCP1703AT-3002E/MC

MCP1703AT-3072E/DB

MCP1703AT-3072E/MB

MCP1703AT-3152E/CB

MCP1703AT-3301E/DB

MCP1703AT-3302E/CB

MCP1703AT-3302E/CBAAC

MCP1703AT-3302E/CBVAO

MCP1703AT-3302E/DB

MCP1703AT-3302E/DBVAO

MCP1703AT-3302E/MB

MCP1703AT-3302E/MBVAO

MCP1703AT-3302E/MC

MCP1703AT-3502E/CB

MCP1703AT-4002E/CB

MCP1703AT-4002E/DB

MCP1703AT-4002E/MB

MCP1703AT-4002E/MC

MCP1703AT-4102E/DB

MCP1703AT-4102E/MB

MCP1703AT-5001E/CB

MCP1703AT-5001E/CBAAA

MCP1703AT-5001E/DB

MCP1703AT-5002E/CB

MCP1703AT-5002E/CBVAO

MCP1703AT-5002E/DB

MCP1703AT-5002E/DBVAO

MCP1703AT-5002E/MB

MCP1703AT-5002E/MBVAO

MCP1703AT-5002E/MC

MCP1703AT-5002E/MCAAB

MCP1703AT-5002E/MCVAO

MCP1703RT-5002E/MB

MCP1703T-1202E/CB

MCP1703T-1202E/DB

MCP1703T-1202E/MB

MCP1703T-1202E/MC

MCP1703T-1502E/CB

MCP1703T-1502E/CBVAO

MCP1703T-1502E/DB

MCP1703T-1502E/MB

MCP1703T-1802E/CB

MCP1703T-1802E/DB

MCP1703T-1802E/MB

MCP1703T-1802E/MC

MCP1703T-2402E/CB

MCP1703T-2402E/DB

MCP1703T-2502E/CB

MCP1703T-2502E/DB

MCP1703T-2502E/MB

MCP1703T-2502E/MC

MCP1703T-2802E/CB

MCP1703T-2802E/DB

MCP1703T-2802E/MB

MCP1703T-3002E/CB

MCP1703T-3002E/CBVAO

MCP1703T-3002E/DB

MCP1703T-3002E/MB

MCP1703T-3002E/MC

MCP1703T-3301E/CB

MCP1703T-3301E/DB

MCP1703T-3302E/CB

MCP1703T-3302E/CBVAO

MCP1703T-3302E/CBVAO-BW

MCP1703T-3302E/DB

MCP1703T-3302E/MB

MCP1703T-3302E/MBAAD

MCP1703T-3302E/MC

MCP1703T-3502E/CB

MCP1703T-3602E/CB

MCP1703T-4002E/CB

MCP1703T-4002E/DB

MCP1703T-4002E/MB

MCP1703T-4002E/MC



QUALIFICATION PLAN SUMMARY

PCN#: CAAN-17JHA0978

**Date:
February 07, 2025**

**Qualification of Microchip Technology Gresham – Fab 4 (GRTM)
as a new fabrication location for selected MCP1702, MCP1703 and
MCP1703A device families available in various packages.**

Purpose: Qualification of Microchip Technology Gresham – Fab 4 (GRTM) as a new fabrication location for selected MCP1702, MCP1703 and MCP1703A device families available in various packages will qualify by similarity (QBS). This is Q100 Grade 1 qualification.

CCB No.: 7413.002 and 7364.011

<u>Misc.</u>	Assembly site		GTBF
	BD Number		A-075068
	MP Code (MPC)		HBAA1YA5XVA1
	Part Number (CPN)		MCP1702T-5002E/MBVAO
	MSL information		MSL-1
	Assembly Shipping Media (T/R, Tube/Tray)		T/R
	Base Quantity Multiple (BQM)		1000
	Reliability Site		MTAI
<u>Lead-Frame</u>	Paddle size		72 x 81
	Material		KFC/LY89
	DAP Surface Prep		Selective Ag Plating
	Treatment		Non-rough
	Process		Stamp
	Lead-lock		No
	Part Number		200000020271
	Lead Plating		Matte Tin
	Strip Size		199x26
	Strip Density		72
<u>Bond Wire</u>	Material		Au
<u>Die Attach</u>	Part Number		CRM1191AR-A
	Conductive		No
	<u>Backside Coat</u> (If Applicable)	Material	8006NS
		Conductive	No
<u>MC</u>	Part Number		CEL-9240HF10L8
<u>PKG</u>	Package Type		SOT-89
	Pin/Ball Count		3L

Test Name	Conditions	Reliability Stress Read Point Grade 1: -40°C to +125°C (MCHP E Temp)	Pre & Post Reliability Stress Test Temperature Grade 1: -40°C to +125°C (MCHP E Temp)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011			5	0	1	5	0 fails after TC	5	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001			5	0	1	5	0	5	30 bonds from a min. 5 devices.
External Visual	Mil. Std. 883-2009/2010			All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	JESD22-A103 +125°C, +150°C or +175°C	Grade 1: 500 hrs (+175°C) or 1000 hrs (150°C)	Grade 1: +25°C, +125°C	45	5	1	50	0	21 - 83	Spares should be properly identified.
Preconditioning - Required for surface mount devices	J-STD-020 JESD22-A113 +150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type. MSL-1		Grade 1: +25°C	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST,
HAST	JESD22-A101 or A110 +130°C/85% RH for 96 hrs or +110°C/85%RH for 264 hrs	Grade 1: 96 hrs (+130°C/85% RH) or 264 hrs (+110°C/85%RH)	Grade 1: +25°C, +125°C	77	5	3	246	0	10 - 14	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	JESD22-A102, A118, or A101 +130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs	Grade 1: 96 hrs (+130°C/85% RH) or 264 hrs (+110°C/85% RH)	Grade 1: +25°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	JESD22-A104 and Appendix 3 -55°C to +125°C, -55°C to +150°C	Grade 1: 1000 cycles (-55°C to +150°C)	Grade 1: +25°C, +125°C	77	5	3	246	0	15 - 60	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

Purpose: Qualification of Microchip Technology Gresham – Fab 4 (GRTM) as a new fabrication location for selected MCP1702, MCP1703 and MCP1703A device families available in various packages.

CCB No.: 7364.011

Test	Number of Lot/s	Sample Size (per lot)	Total Samples	Conditions
ELFR	3	800	2400	48 hours @ 125°C
Q100	3	77	231	1008 Hours @ 125°C
ESD (CDM)	3	12	36	750V @ 25°C
ESD (HBM)	3	12	36	2000V @25°C
				2000V @125°C
Latch Up	3	12	36	+/- 100mA @ 25°C
				+/- 100mA @ 125°C
Electrical Distribution F2F Comparison	3	33	99	From -40°C to 125°C



Date: January 30, 2025

RE: Tempe (Fab 2) Wafer Fabrication Facility ISO/IATF Decertification

IATF Certificate: 08435-2002-AQ-HOU-IATF-33RSTM

On December 2, 2024, Microchip announced manufacturing restructuring plans that include the closure of the Tempe (Fab 2) Wafer Fabrication Facility.

This memo is to further announce that as part of the facility closure, its active IATF-16949 certificate will be withdrawn, in early Q3, 2025. Additionally, the facility will be removed from Microchip's Corporate ISO-9001 certificate by the end of 2025.

Microchip is committed to ensuring product quality during the entire time that Fab 2 remains operational. All established and certified process control measures remain in place and adherence to these practices will continue for the life of the fab, regardless of the status of IATF-16949 certification. Additionally, all Microchip devices are 100% electrically tested, with only known good products shipped to customers.

Please contact your local [Microchip Sales Office](#) with questions or concerns regarding this notification.

Regards,
Microchip Corporate Quality Systems

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