

## Product Change Notification / CENO-12EJZF989

#### Date:

17-Jan-2023

# **Product Category:**

High Voltage Power Modules

# **PCN Type:**

Manufacturing Change

# **Notification Subject:**

CCB 5399 Initial Notice: Qualification of MP3B as a new assembly site for selected Microsemi products available in SP4 package.

### **Affected CPNs:**

CENO-12EJZF989\_Affected\_CPN\_01172023.pdf CENO-12EJZF989\_Affected\_CPN\_01172023.csv

# **Notification Text:**

**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 MP3B as a new assembly site for selected Microsemi products available in SP4 package.

### **Pre and Post Change Summary:**

	Pre Change	Post Change				
Assembly Site	Microchip Technology	Microchip Technology				

Inc. (MPH2)	Inc. (MPHIL-3) (MP3B)
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Impacts to Data Sheet:None

Change ImpactNone

**Reason for Change:**To improve manufacturability by qualifying MP3B as a new assembly site.

**Change Implementation Status:**In Progress

### **Estimated Qualification Completion Date:**May 2023

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.

#### Time Table Summary:

		Janu	ary 2	2023		>	May 2023				
Workweek	1	2	3	4	5		1 8	1 9	2	2 1	2
Initial PCN Issue Date			Х								
Qual Report Availability								Х			
Final PCN Issue Date								Х			

Method to Identify Change: Traceability code

**Qualification Plan:** Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Plan.

**Revision History:** January 17, 2023: Issued initial notification.

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

Attachments:
PCN_CENO-12EJZF989_Qual Plan.pdf
Please contact your local Microchip sales office with questions or concerns regarding this notification.
Terms and Conditions:
If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.
If you wish to <u>change your PCN profile, including opt out,</u> please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

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#### Affected Catalog Part Numbers (CPN)

APTC60AM24SCTG

APTC60AM35SCTG

APTC60DAM18CTG

APTC60HM45SCTG

APTC60HM70SCTG

APTC80A10SCTG

APTC80A15SCTG

APTC80H29SCTG

APTDF100H100G

APTDF100H20G

APTGF100A120DTWG

APTGF100A120TG

APTGF150A120TG

APTGF75DSK120TG

APTGF75H120TG

APTGLQ100A120TG

APTGLQ150A120TG

APTGLQ75H120TG

APTGT100A120TG

APTGT100A170TG

APTGT100DH120TG

APTGT100DH60TG

APTGT100DU120TG

APTGT100DU170TG

APTGT100DU60TG

APTGT100H60TG

APTGT100SK170TG

APTGT150A120TG

APTGT150A170TG

APTGT150DH60TG

APTGT150DU120TG

APTGT150H60TG

APTGT200DU60TG

APTGT50A170TG

APTGT50DA120TG

APTGT50DH120TG

APTGT50DH170TG

APTGT50DU120TG

APTGT50H170TG

APTGT50SK120TG

APTGT50SK170TG

APTGT75DA120TG

APTGT75DU120TG

APTGT75H120TG

APTGT75SK120TG

APTM100A18FTG

Date: Monday, January 16, 2023

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APTM100A23STG
APTM100DA18TG
APTM100H35FTG
APTM100H45SCTG
APTM100H45STG
APTM10AM05FTG
APTM10DAM05TG
APTM10SKM05TG
APTM10XM09F4G
APTM120A29FTG
APTM20AM08FTG
APTM20AM10FTG
APTM20AM10STG
APTM20DAM08TG
APTM20DUM08TG
APTM20HM16FTG
APTM20HM20FTG
APTM20HM20STG
APTM20SKM08TG
APTM50AM35FTG
APTM50AM38FTG
APTM50AM38SCTG
APTM50AM38STG
APTM50HM65FTG
APTM50HM75FTG
APTM50HM75SCTG
APTM50HM75STG
CMCRC60AM23C4G
CMENGU140A60TG
CMMOM10XM09F4G
CMNVC60AM23C4G
CMPOM100DA23CTG
MSCC60AM23C4AG
MSCDF200H1204G
MSCGLQ100A65TG
MSCGLQ150A120DTWG
MSCGLQ200A65TG
MSCGLQ200SK65TG
MSCM20XM16F4G MSCSM70VM10C4AG
MSCSM/UVM10C4AG



# **QUALIFICATION PLAN SUMMARY**

PCN #: CENO-12EJZF989

Date: November 9, 2022

Qualification of MP3B as a new assembly site for selected Microsemi products available in SP4 package.

Purpose: Qualification of MP3B as a new assembly site for selected Microsemi products available in SP4 package.

CCB No.: 5339

	Assembly site	MP3B
انہ	BD Number	CC4109B-20 ed05 APTGT300A60TG
Misc.	Part Number (CPN)	APTGT300A60TG
	Assembly Shipping Media (T/R, Tube/Tray)	Anti-static Tube
	Reliability Site	MP3B

Test Name	Conditions	Sam ple Size	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	REL Test Site	Pkg. Type	Special Instructions
Temp Cycle	JESD22-A10440°C to +125°C • Ramp at 7°C/min • 15 minutes per cycle for 1000 cycles with cross-section every 250 cycles.	5	1	5	0	12	MPHIL-2	Module	MPHIL-2: Build dummy units in MPHIL-2 using the following packages: SP1 - 5 units (DA using VLO and DBC using PiNK) SP3F - 5 units (DA using VLO and DBC using PiNK) SP4 - 5 units (DA using VLO and DBC using PiNK) SP6P - 5 units (DA using VLO and DBC using PiNK) SP6Li - 5 units (DA using VLO and DBC using PiNK)  1 unit for cross-section will be taken out during temp cycle: at t=0 - 1 unit each CCB + 1 unit from MPHIL-2 build 250th cycle - 1 unit each CCB + 1 unit from MPHIL-2 build 750th cycle - 1 unit each CCB + 1 unit from MPHIL-2 build 1000th cycle - 1 unit each CCB + 1 unit from MPHIL-2 build
Isolation Test	Refer to PI-37311 - Module Isolation Test Specification	100	1	10 0	0	15	MPHIL-2	Module	
Parametric Test	Refer to PI-37312 - Module Final Test Specification     Refer to PI-37359 - Module D8580M Test Program Reference (TESEC) TST File Name 6375 V01.tst	100	1	10 0	0	3	MPHIL-2	Module	
Mechanical Inspection (External Visual)	As per Pl-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification     As per Pl-37310 Module Final Visual Inspection Specification     As per device assembly diagram for mechanical inspection	1	1	1	0	2	MPHIL-3	Module	

Test Name	Conditions	Sam ple Size	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	REL Test Site	Pkg. Type	Special Instructions
Solder Joint Check	As per Pl-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification	100	1	10 0	0	1	MPHIL-3	Module	
X-Ray Inspection	As per Pl-37339 Module DBC     Attach Specification      As per Pl-37305 Module and     PSDS Die Sales Visual     Inspection Criteria Specification	100	1	10 0	0	1	MPHIL-3	Module	All BDX packages with AlSiC baseplate will be subject to X-Ray instead of CSAM to prevent moisture absorption of plate (as per 9.13.1 of PI-37339)
Internal Visual (3rd Optical Inspection)	As per Pl-37323 KPTM/KPTV Module Assembly Specification     As per Pl-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification     As per Pl-37310 Final Visual Specification Module	100	1	10 0	0	1	MPHIL-3	Module	
Flatness Check	As per Pl-37358 Module     Die/DBC Attach for AlSiC     Baseplate Specification     (Bordeaux)      As per Pl-37305 Module and     PSDS Die Sales Visual     Inspection Criteria Specification      As per Pl-37310 Final Visual     Specification Module	100	1	10 0	0	1	MPHIL-3	Module	Refer to specific device SOW for the Baseplate flatness requirement