Product Change Notification / ALAN-12PSXU630

Date:

17-Jan-2023

Product Category:

High Voltage Power Modules, Power Discrete Products

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5401 Initial Notice: Qualification of MP3B as new assembly site for selected Microsemi APTxx, CMxx, and MSCxx device families available in SP3F package.

Affected CPNs:

ALAN-12PSXU630_Affected_CPN_01172023.pdf
ALAN-12PSXU630_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 new assembly site for selected Microsemi APTxx, CMxx, and MSCxx device families available in SP3F package.

Pre and Post Change Summary:

	Pre Change	Post Change

Assembly Site	Microchip Technology Inc. (MPH2)/ (MPH2)	Microchip Technology Inc. (MPHIL-3)/ MP3B

Impacts to Data Sheet: None

Change Impact None

Reason for Change: To improve on time delivery performance 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:

	January 2023					**>**	**May 2023**				
Workweek	1	2	3	4	5		18	19	20	21	22
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: 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_ALAN-12PSXU630 Qual 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.

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QUALIFICATION PLAN SUMMARY

PCN# ALAN-12PSXU630

Date:
November 9, 2022

Qualification of MP3B as new assembly site for selected Microsemi APTxx, CMxx, and MSCxx device families available in SP3F package.

Purpose: Qualification of MP3B as new assembly site for selected Microsemi APTxx, CMxx, and MSCxx device families available in SP3F package.

Misc.	Assembly site	MPHIL3
	BD Number	CC9380D-20 ed04 CMTDDR150X175S3G
	Part Number (CPN)	CMTDDR150X175S3G
	Assembly Shipping Media (T/R, Tube/Tray)	Anti-static Tube
	Reliability Site	MPHIL3
	CCB#	5401

Test Name	Conditions	Sample Size	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Start Date	End Date	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions	Test Results
Temp Cycle	JESD22-A104. -40°C to +125°C • Ramp at 7ºC/min • 15 minutes per cycle for 1000 cycles with cross-section every 250 cycles.	5	1	5	0	12				MPHIL-2	Module	**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 500th 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	130	1	130	0	15			N/A	MPHIL-2	Module		
Parametric Test	• Refer to PI-37312 - Module Final Test Specification	130	1	130	0	3			N/A	MPHIL-2	Module		
Mechanical Inspection (External Visual)	• As per PI-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification	1	1	1	0	2			N/A	MPHIL-3	Module		
Solder Joint Check		130	1	130	0	1			N/A	MPHIL-3	Module		
X-Ray Inspection	• As per PI-37339 Module DBC Attach Specification	130	1	130	0	1			N/A	MPHIL-3	Module		
Internal Visual (3rd Optical Inspection)	• As per PI-37323 KPTM/KPTV Module Assembly Specification	130	1	130	0	1			N/A	MPHIL-3	Module		
Flatness Check	• As per PI-37358 Module Die/DBC Attach for AlSiC Baseplate Specification	130	1	130	0	1			N/A	MPHIL-3	Module		

Affected Catalog Part Numbers (CPN)

APTC60BBM24T3G
APTC60DDAM24T3G
APTC60DDAM35T3G
APTC60DHM24T3G
APTC60DSKM24T3G
APTC60HM24T3G
APTC60HM35T3G
APTC60HM70BT3G
APTC60HM70RT3G
APTC60HM70T3G
APTC60VDAM24T3G
APTC80DDA15T3G
APTC80H15T3G
APTC80H29T3G
APTCV50H60T3G
APTCV60HM45BC20T3G
APTCV60HM45BT3G
APTCV60HM45RCT3G
APTCV60HM45RT3G
APTCV60TLM24T3G
APTCV60TLM45T3G
APTCV60TLM70T3G
APTCV60TLM99T3G
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APTGF25H120T3G
APTGF25X120T3G
APTGF50DSK120T3G
APTGF50H60T3G
APTGF50X60T3G
APTGF90H60T3G
APTGL180A120T3AG
APTGL40X120T3G
APTGL60DDA120T3G
APTGL60H120T3G
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APTGT200DA60T3AG
APTGT200SK60T3AG
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APTGT30X60T3G
APTGT35H120T3G
APTGT35X120T3G
APTGT50DDA120T3G
APTGT50DDA60T3G
APTGT50H120T3G
APTGT50H60RT3G
APTGT50H60T3G
APTGT50TL60T3G
APTGT50X60T3G
APTGT75DDA60T3G
APTGT75DH120T3G
APTGT75H60T3G
APTGT75TL60T3G
APTGT75X60T3G
APTGTQ100DDA65T3G
APTGTQ100H65T3G
APTGTQ200A65T3G
APTGTQ200DA65T3G
APTGTQ200SK65T3G
APTGTQ50H65T3G
APTGTQ50TA65T3G
APTGTQ50VDA65T3G
APTM100DSK35T3G
APTM100H35FT3G
APTM100H45FT3G
APTM100H46FT3G
APTM10DSKM09T3G
APTM10DSKM19T3G
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APTM10HM19FT3G
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APTM50DDAM65T3G

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APTM50HM75FT3G
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APTMC120AM25CT3AG
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APTMC120TAM34CT3AG
APTMC60TLM55CT3AG
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CMCRMC90AM12C3AG
CMDHMC120DAM09CT3AG
CMDHMC120DAM12CT3AG
CMDHSM120DAM11CT3AG
CMGIGLQ300DA65T3AG
CMHUC60DAM41RT3EAG
CMHUGT40V120RT3EG
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CMHUSM120VC120CT3EAG
CMIEGLQ80H120T3AG
CMKYSM120TAM31CT3AG
CMLOGU50H60T3FG
CMLRGLQ80HR120T3G-AS
CMMVGF100V120T3AG
CMMVGLQ100V120T3AG
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CMSEGF50DU120T3AG
CMSEGU40H120T3AG
CMSSML202UM11R005T3AG
CMTDDF100H120T3AG
CMTDDF200H120T3AG
CMTDGF50H603G
CMTDGF90H603G
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CMTDGLQ50H603G
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MSCDF100H1203AG
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MSCSM70DUM10T3AG
MSCSM70HM10T3AG
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