



Product Change Notification / RMES-19QQFB875

Date:

27-Jan-2023

Product Category:

High Voltage Power Modules

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5396 Initial Notice: Qualification of MP3B as a new assembly site for selected Microsemi products available in SP6 package.

Affected CPNs:

[RMES-19QQFB875_Affected_CPN_01272023.pdf](#)
[RMES-19QQFB875_Affected_CPN_01272023.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 SP6 package

Pre and Post Change Summary:

	Pre Change	Post Change
Assembly Site	Microchip	Microchip

Technology Inc.
(MPH2) / MPH2

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 an additional 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	0 1	0 2	0 3	0 4	0 5		1 8	1 9	2 0	2 1	2 2
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 27, 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_RMES-19QQFB875_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.

Affected Catalog Part Numbers (CPN)

APTM50AM24SG
APTM50DAM17G
APTM50DAM19G
APTM50DHM38G
APTM50HM35FG
APTM50HM38FG
APTM50SKM17G
APTM50SKM19G
APTM50UM09FAG
APTM50UM13SAG
CMADGL150H120G
CMADGL400DU120AG
CMANGF300DA120T6G
CMANGF300SK120T6G
CMANGF75H120G
CMANGLQ400SK120T6G
CMAOGLQ300A120G
CMBAM20DUM04FG
CMBBGLQ400A120CG
CMCLGT600DA60G
CMEADSK800AK20G
CMFIGF100V120G
CMGEMC120DUM023AG
CMGESM120DUM027AG
CMGHM100UM78SAG
CMGIGLQ300H65G
CMHIM100UM65SAG
CMHUDC200AK120AG
CMHUDC300AK120AG
CMHUGF300DA120C20TAG
CMHUGF300DA120C20TG
CMHUGF300SK120C15TG
CMHUGF300SK120C20TAG
CMHUGF300SK120C20TG
CMHUGF300U120DC20TG
CMHUGF300U120DC30TG
CMHUGF600U120DC30TAG
CMHUGF600U120TAG
CMPWGT300V60G
CMTTM100UM65SAG
MSCDC100H120AG
MSCDC100H170AG
MSCDC100H70AG
MSCDC200H120AG
MSCDC200H170AG
MSCDC200H70AG

MSCDC300A120AG
MSCDC300A170AG
MSCDC300A70AG
MSCDC450A120AG
MSCDC450A170AG
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MSCDC600A120AG
MSCDC600A170AG
MSCDC600A70AG
MSCDC90H330AG
MSCDCM250A120AG
MSCGLQ200A120DG
MSCM10AU40AG
MSCMC120DUM03AG
MSCSM120AM027CT6AG
MSCSM120AM027T6AG
MSCSM120AM042CT6AG
MSCSM120AM042T6AG
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MSCSM120DUM042AG
MSCSM120DUM042AMG
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MSCSM120HM063CAG
MSCSM120HM083AG
MSCSM120HM083CAG
MSCSM120HRM052NMG
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MSCSM120TLM11CAG
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MSCSM70VR1M07CT6AG
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APTGF300A120G
APTGF300SK120G
APTGF300U120DG
APTGL240TL120G
APTGL475U120DAG
APTGL875U120DAG
APTGLQ150H120G
APTGLQ200H120G
APTGLQ200H65G
APTGLQ200HR120G
APTGLQ225H65G
APTGLQ300A120G
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APTGT200DU120G
APTGT200H120G
APTGT200H60G
APTGT200SK120G
APTGT200TL60G
APTGT225A170G
APTGT225DU170G
APTGT225SK170G
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APTGT300SK170G
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APT100AM90FG
APT100DAM90G
APT100H18FG
APT100UM45DAG
APT100UM45FAG
APT100UM60FAG
APT100UM65DAG
APT100UM65SAG
APT100UM65SCAVG
APT10AM02FG
APT10DAM02G
APT10DHM05G
APT10DUM02G
APT10HM05FG
APT10SKM02G
APT10UM01FAG
APT10UM01FT6AG
APT10UM02FAG
APT120A15FG
APT120A20DG
APT120A20SG
APT120DU15G
APT120H29FG
APT120U10SAG
APT120U10SCAVG
APT120UM70DAG
APT120UM70FAG
APT20AM02FG
APT20AM04FG
APT20AM05FG
APT20AM06SG
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APT20DUM04G
APT20DUM05G
APT20HM08FG
APT20HM10FG
APT20SKM04G
APT20UM03FAG
APT20UM04SAG
APT50AM17FAG
APT50AM17FG
APT50AM19FG
APT50AM24SCG



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: RMES-19QQFB875

**Date:
January 12, 2023**

Qualification of MP3B as a new assembly site for selected Microsemi products available in SP6 package.

Purpose: Qualification of MP3B as a new assembly site for selected Microsemi products available in SP6 package.

CCB No. 5396

<u>Misc.</u>	Assembly site	MP3B
	BD Number	CC9728A-20 ed03 CMHUGF300DA120C20TG
	Part Number (CPN)	CMHUGF300DA120C20TG
	Assembly Shipping Media (T/R, Tube/Tray)	Anti-static Tube
	Reliability Site	MP3B

Test Name	Conditions	Sample Size	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	REL Test Site	Pkg. Type	Special Instructions
Temp Cycle	JESD22-A104. -40°C to +125°C <ul style="list-style-type: none"> 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	<u>1 unit for cross-section will be taken out during temp cycle:</u> 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	<ul style="list-style-type: none"> Refer to PI-37311 - Module Isolation Test Specification 	100	1	100	0	15	MPHIL-2	Module	
Parametric Test	<ul style="list-style-type: none"> 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	100	0	3	MPHIL-2	Module	
Mechanical Inspection (External Visual)	<ul style="list-style-type: none"> As per PI-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification As per PI-37310 Module Final Visual Inspection Specification As per device assembly diagram for mechanical inspection 	1	1	1	0	2	MPHIL-3	Module	
Solder Joint Check	<ul style="list-style-type: none"> As per PI-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification 	100	1	100	0	1	MPHIL-3	Module	
X-Ray Inspection	<ul style="list-style-type: none"> As per PI-37339 Module DBC Attach Specification As per PI-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification) 	100	1	100	0	1	MPHIL-3	Module	

Test Name	Conditions	Sample Size	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	REL Test Site	Pkg. Type	Special Instructions
Internal Visual (3rd Optical Inspection)	<ul style="list-style-type: none"> • As per PI-37323 KPTM/KPTV Module Assembly Specification • As per PI-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification • As per PI-37310 Final Visual Specification Module 	100	1	100	0	1	MPHIL-3	Module	
Flatness Check	<ul style="list-style-type: none"> • As per PI-37358 Module Die/DBC Attach for AISiC Baseplate Specification (Bordeaux) • As per PI-37305 Module and PSDS Die Sales Visual Inspection Criteria Specification • As per PI-37310 Final Visual Specification Module 	100	1	100	0	1	MPHIL-3	Module	