



Product Change Notification / MFOL-19BUCB308

Date:

27-Feb-2024

Product Category:

High Voltage Power Modules, Power Discrete Components

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6500.001 Initial Notice: Qualification of MG15F-0140B as a new mold compound material for various products available in SOT-227, TO-264, TO-268 and TO-247 packages at TEAM assembly site.

Affected CPNs:

[MFOL-19BUCB308_Affected_CPN_02272024.pdf](#)

[MFOL-19BUCB308_Affected_CPN_02272024.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 MG15F-0140B as a new mold compound material for various products available in SOT-227, TO-264, TO-268 and TO-247 packages at TEAM assembly site.

Pre and Post Change Summary:

	Pre Change	Post Change
Assembly Site	TEAM PACIFIC	TEAM PACIFIC

	CORPORATION (TEAM)	CORPORATION (TEAM)
Wire Material	Al	Al
Die Attach Material	PbSn2Ag2.5, PbSn5Ag2.5	PbSn2Ag2.5, PbSn5Ag2.5
Molding Compound Material	MG15F-0140	MG15F-0140B
Lead-Frame Material	Cu	Cu

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve productivity by qualifying MG15F-0140B as a new mold compound material at TEAM assembly site.

Change Implementation Status:In Progress

Estimated Qualification Completion Date:May 2024

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:

	February 2024					>	May 2024				
Workweek	05	06	07	08	09		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:February 27, 2024: 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_MFOL-19BUCB308_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)

- APT60D100BG
- APT60D120BG
- APT60D20BG
- APT60D40BG
- APT60D60BG
- APT75DQ120BG
- APT60DQ100BG
- APT60DQ120BG
- APT75DQ60BG
- APT60DQ60BG
- APT30S20BG
- APT30D100BG
- APT30D120BG
- APT30D20BG
- APT30D40BG
- APT30D60BG
- APT30D30BG
- APT40DQ100BG
- APT40DQ60BG
- APT15D60BG
- APT15DQ100BG
- APT15DQ120BG
- APT15DQ60BG
- APT30S20BCTG
- APT30D100BCTG
- APT30D120BCTG
- APT30D20BCTG
- APT30D40BCTG
- APT30D60BCTG
- APT40DQ60BCTG
- APT10M19BVR
- APT6021BFLLG
- APT10078BLLG
- APT1201R2BLLG
- APT8043BFLLG
- APT10078BFLLG
- APT15D100BCTG
- APT15D100BHBG
- APT15DQ60BCTG
- APT50M65B2FLLG
- APT6010B2FLLG
- APT8020B2LLG
- APT12057B2LLG
- APT8020B2FLLG
- APT30D20BCAG
- APT30D60BCAG

APT30D100BHBG
APT30D60BHBG
APT30DQ60BHBG
APT60S20BG
APT60S20B2CTG
APT100S20BG
APT40GP60B2DQ2G
APT50GP60B2DQ2G
APT35GP120B2DQ2G
APT45GP120B2DQ2G
APT40GP60BG
APT50GP60BG
APT40GP90BG
APT35GP120BG
APT45GP120BG
APT15GP60BG
APT13GP120BG
APT15GP60BDQ1G
APT15GP90BDQ1G
APT13GP120BDQ1G
APT30GP60BDQ1G
APT25GP90BDQ1G
APT25GP120BDQ1G
APT65GP60B2G
APT11N80BC3G
APT75GP120B2G
CC2105
APT40GP90B2DQ2G
APT100D60B2G
APT30DQ100BG
APT30DQ120BG
APT23F60B
APT30F50B
APT9F100B
APT7M120B
APT18M80B
APT14M100B
APT14F100B
APT30GP60BG
APT25GP90BG
APT25GP120BG
APT56F50B2
APT34F60B
APT34M60B
APT56M60B2
APT24F50B
APT36GA60BD15
APT54GA60B
APT40DQ120BG

APT30DQ60BG
APT60DQ60BCTG
APT75F50B2
APT5012LNRG
APT10045LFLLG
APT10045LLL
APT12067LFLLG
APT40M70LV RG
APT10050LVR
APT8030LV RG
APT10050LVFRG
APT60D100LCTG
APT60D60LCTG
APT60DQ100LCTG
APT33GF120LRDQ2G
APT50M65LLL
APT50M65LFLLG
APT6010LFLLG
APT6010LLL
APT8020LLL
APT10035LLL
APT10035LFLLG
APT12057LFLLG
APL602L-1
APT50M80LVFRG
APT12060LVFRG
APT20M16LLL
APT20M16LFLLG
APT60M75L2LLG
APT50M50L2LLG
APT60M75L2FLLG
APT8014L2LLG
APT10026L2LLG
APT8014L2FLLG
APT12040L2FLLG
APT10026L2FLLG
APT50M60L2VRG
APT65GP60L2DQ2G
APT94N60L2C3G
ARF469AG
ARF469BG
APT150GN60LDQ4G
APT50GT120LRG
APT50GT120LRDQ2G
APT28M120L
APT31M100L
APT29F100L
APT24M120L
APT22F120L

APT43M60L
APT43F60L
APT56M50L
APT56F50L
APT75M50L
APT75F50L
APT56M60L
APT56F60L
APT85GR120L
APT6029SLLG
APT5018SFLLG
APT5018SLLG
APT10090SLLG
APT1201R4SFLLG
APT10078SLLG
APT10050JN
APT2X31D100J
APT2X31D120J
APT2X31D20J
APT2X31D40J
APT2X31D60J
APT2X31DQ120J
APT2X31DQ60J
APT2X61S20J
APT2X61D100J
CC3062
APT2X61D120J
APT2X61D20J
APT2X61D40J
APT2X61D60J
APT2X61DQ100J
APT2X61DQ120J
APT2X61DQ60J
APT2X31S20J
APT2X30D100J
APT2X30D120J
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APT2X30D60J
APT2X30DQ120J
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APT2X60D100J
CC3063
APT2X60D120J
APT2X60D60J
APT2X60DQ120J
APT2X60DQ60J
APT2X101S20J
APT2X101D100J
CC3053

APT2X101D120J
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APT2X101DQ120J
APT2X101DQ60J
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APT2X100D20J
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APT2X100DQ120J
APT2X100DQ60J
APT2X100D120J
APT40M35JVR
APT50M50JVR
APT60M75JVR
APT50M50JVFR
APT8015JVFR
APT12040JVR
APT50M75JFLL
APT50M75JLL
APT10045JLL
APT10045JFLL
APT8024JLL
APT12067JFLL
APT40M70JVR
APT5010JVR
APT5010JVFR
APT12080JVFR
APT8030JVFR
APT10050JVFR
APT50M85JVR
APT50M85JVFR
APT30M19JVFR
APT20M11JVR
APT10M07JVFR
APT20M20JLL
APT30M36JLL
APT30M36JFLL
APT10M11JVRU2
APT10M11JVRU3
APT20M22JVR
APT30M40JVR
APT10M11JVFR
APT30M40JVFR
APT50GF120JRD
APT50GF120JRDQ3

APT60GF120JRD
APT60GF120JRDQ3
APT100GT120JRDQ4
APT100GT60JRDQ4
APT30M30JLL
APT6010JLL
APT50M65JFLL
APT6010JFLL
APT50M65JLL
APT10035JLL
APT10035JFLL
APT12057JFLL
APT8020JLL
APT8020JFLL
APL502J
APT100GT60JR
APT60M75JFLL
APT50M50JLL
APT50M50JFLL
APT8014JLL
APT10026JFLL
APT10026JLL
APT6017JFLL
APT5010JLL
APT65GP60J
APT40GP60JDQ2
APT50GP60JDQ2
APT40GP90JDQ2
APT45GP120JDQ2
APT40GP60J
APT35GP120J
APT45GP120J
APT77N60JC3
APT80GP60JDQ3
APT75GP120JDQ3
APT65GP60JDQ2
APT80GP60J
APT75GP120J
APT60M60JFLL
APT20M11JLL
APT50M38JLL
APT50M38JFLL
APT8011JLL
APT10021JLL
APT8011JFLL
APT10021JFLL
APT20M11JFLL
APT150GN60J
APT200GN60J

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APT200GN60JDQ4
APT75GN120JDQ3
APT75GT120JRDQ3
APT150GN60JDQ4
APT150GN120J
APT50GT120JRDQ2
APT58M80J
APT45M100J
APT34M120J
APT53F80J
APT41F100J
APT32F120J
APT150GT120JR
APT100GN120JDQ4
APT150GN120JDQ4
APT22F100J
APT25M100J
APT19M120J
APT17F120J
APT58F50J
APT47F60J
APT30F60J
APT38F50J
APT100M50J
APT80F60J
APT80M60J
APT100F50J
APT51M50J
APT39F60J
APT46GA90JD40
APT60GA60JD60
APT5020BNG
CC1029
APT5020BNFR-AE



MICROCHIP
QUALIFICATION PLAN SUMMARY

PCN #: MFOL-19BUCB308

Date:
February 17, 2024

Qualification of MG15F-0140B as a new mold compound material for various products available in SOT-227, TO-264, TO-268 and TO-247 packages at TEAM assembly site.

Purpose: Qualification of MG15F-0140B as a new mold compound material for various products available in SOT-227, TO-264, TO-268 and TO-247 packages at TEAM assembly site.

CCB No. 6500.001

<i>Qual Vehicle Number</i>	1	2	3	4	5
<i>Assembly Subcon</i>	Fastech	Fastech	Fastech	Fastech	Fastech
<i>Qual Vehicle BU</i>	SiC	PSDS	SiC	PSDS	SiC
<i>Qual Vehicle Package</i>	SOT-227	SOT-227	TO-247	TO-247	TO-247
<i>Mold Compound</i>	MG15F-0140	MG15F-0140	MG15F-35A	MG15F-35A	MG15F-0140
<i>Qual Standard Focused On</i>	Commercial	Commercial	Commerical Die, Automotive Package	Commercial	Commercial
<i>Qual Vehicle CPN</i>	MSC017SMA120J	APT2X101DQ120J	MSC050SDA170B	ARF461AG	MSC035SMA170B4
<i>Qual Vehicle Technology</i>	SiC Gen2	DQ DIODE	SiC Gen2	MOS5	SiC Gen2
<i>Qual Vehicle Mask</i>	1G003	1616F-120	10004	1525R-100	1G006

Reliability Test	Qty of Control Lots	Qty of Study Lots	Samples per Lot	Qty of Control Lots	Qty of Study Lots	Samples per Lot	Qty of Control Lots	Qty of Study Lots	Samples per Lot	Qty of Control Lots	Qty of Study Lots	Samples per Lot	Qty of Control Lots	Qty of Study Lots	Samples per Lot
Preconditioning															
External Visual	1	1	77	1	1	77	1	3	77	1	1	77	1	1	77
Parametric Verification and Comparison	1	1	25	1	1	25	1	3	25	1	1	25	1	1	25
HTRB (80% rated voltage, 175 °C, 1000 hr)							1	3	77				1	1	77
HTRB (100% rated voltage, 150 °C, 1000 hr)				1	1	77									
Temp Cycle (-55 °C to 150 °C, 100 cycles)	1	1	77	1	1	77				1	1	77	1	1	77
Temp Cycle (-55 °C to 175 °C, 400 cycles)							1	3	77						
HAST (130 °C, 85% RH, 42 V, 96 hr)	1	1	77	1	1	77	1	3	77	1	1	77	1	1	77
Destructive Physical Analysis				1	1	2	1	1	2						

