

Product Change Notification - GBNG-12CPPC550

Date: 23 Nov 2017

Product Category: Memory; 8-bit PIC Microcontrollers; General Purpose LED Drivers; Power Management - System Supervisors/Voltage Detectors; Power MOSFET Drivers; Linear Regulators; Successive Approximation Register (SAR) A/D Converters; Digital Potentiometers; Linear Op Amps; Linear Comparators; Linear Selectable Gain Amplifiers; Battery Management and Fuel Gauges - Battery Chargers; Temperature Sensors; Capacitive Touch Sensors

Notification subject: CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Notification text: **PCN Status:** Final notification.

PCN Type: Manufacturing change.

Microchip Parts Affected: Please open the attachments found in the attachments field below labeled as PCN_#_Affected_CPN.

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

Description of Change: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Pre Change: Assembled at MTAI assembly site.

Post Change: Assembled at MTAI or MMT assembly site.

Pre and Post Change Summary:

	Pre Change	Post Change	
Assembly Site	Microchip Technology Thailand (HQ) / MTAI	Microchip Technology Thailand (HQ) / MTAI	Microchip Technology Thailand (Branch) / MMT
Wire material	Au	Au	Au
Die attach material	8900NC	8900NC	8900NC
Molding compound material	G600V	G600V	G600V
Lead frame material	CDA194	CDA194	CDA194

Impacts to Data Sheet: None

Change Impact: None

Reason for Change: To improve productivity by qualifying MMT as an additional assembly site.

Change Implementation Status: In Progress

Estimated First Ship Date: December 23, 2017 (datecode: 1751)

Note: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	July 2017				→	November 2017					December 2017			
	27	28	29	30		44	45	46	47	48	49	50	51	52
Initial PCN Issue Date			X											
Qual Report Availability								X						
Final PCN Issue Date								X						
Estimated Implementation Date												X		

Method to Identify Change: Traceability code

Qualification Report: Please open the attachments included with this PCN labeled as PCN_#_Qual Report.

Revision History:
July 17, 2017: Issued initial notification.
July 21, 2017: Re-issued the initial notification to notify all affected customers.
November 23, 2017: Issued final notification. Attached the qualification report. Provided estimated first ship date to be on December 22, 2017

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

Attachment(s): [PCN_GBNG-12CPPC550_Affected CPN.pdf](#)
[PCN_GBNG-12CPPC550_Qual Report.pdf](#)
[PCN_GBNG-12CPPC550_Affected CPN.xls](#)

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

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To opt out of future offer or information emails (other than product change notification emails), click here to go to [microchipDIRECT](#) and login, then click on the "My account" link, click on "Update profile" and un-check the box that states "Future offers or information about Microchip's products or services."

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
24AA014T-I/OT
24AA025E48T-E/OT
24AA025E48T-I/OT
24AA025E64T-E/OT
24AA025E64T-I/OT
24AA025T-I/OT
24AA025UIDT-I/OT
24C01CT-E/OT
24C01CT-I/OT
24LC014T-E/OT
24LC014T-I/OT
24LC025T-E/OT
24LC025T-I/OT
24VL014T/OT
24VL025T/OT
25AA010AT-I/OT
25AA020AT-I/OT
25AA02E48T-I/OT
25AA02E64T-I/OT
25AA02UIDT-I/OT
25AA040AT-I/OT
25LC010AT-E/OT
25LC010AT-I/OT
25LC020AT-E/OT
25LC020AT-I/OT
25LC040AT-E/OT
25LC040AT-I/OT
34AA02T-E/OT
34AA02T-I/OT
34LC02T-E/OT
34LC02T-I/OT
34VL02T/OT
93AA46AE48T-I/OT
93AA46AT-I/OT
93AA46BT-I/OT
93AA56AT-I/OT
93AA56BT-I/OT
93AA66AT-I/OT
93AA66BT-I/OT
93AA76AT-I/OT
93AA76BT-I/OT
93AA86AT-I/OT
93AA86BT-I/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
93C46AT-E/OT
93C46AT-I/OT
93C46BT-E/OT
93C46BT-I/OT
93C56AT-E/OT
93C56AT-I/OT
93C56BT-E/OT
93C56BT-I/OT
93C66AT-E/OT
93C66AT-I/OT
93C66BT-E/OT
93C66BT-I/OT
93C76AT-E/OT
93C76AT-I/OT
93C76BT-E/OT
93C76BT-I/OT
93C86AT-E/OT
93C86AT-I/OT
93C86BT-E/OT
93C86BT-I/OT
93LC46AT-E/OT
93LC46AT-I/OT
93LC46BT-E/OT
93LC46BT-I/OT
93LC56AT-E/OT
93LC56AT-I/OT
93LC56BT-E/OT
93LC56BT-I/OT
93LC66AT-E/OT
93LC66AT-I/OT
93LC66BT-E/OT
93LC66BT-I/OT
93LC76AT-E/OT
93LC76AT-I/OT
93LC76BT-E/OT
93LC76BT-I/OT
93LC86AT-E/OT
93LC86AT-I/OT
93LC86BT-E/OT
93LC86BT-I/OT
HA1601T-I/OT
HV98100T-E/CH
HV98101T-E/CH

GBNG-12CPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPC550
CATALOG_PART_NBR
MCP1316MT-20LI/OT
MCP1316MT-20RI/OT
MCP1316MT-23LI/OT
MCP1316MT-26CE/OT
MCP1316MT-29KE/OT
MCP1316MT-29LE/OT
MCP1316MT-29ME/OT
MCP1316MT-30HE/OT
MCP1316MT-31LE/OT
MCP1316MT-33LE/OT
MCP1316MT-45GE/OT
MCP1316MT-46FE/OT
MCP1316MT-46GE/OT
MCP1316MT-46LE/OT
MCP1316T-20LI/OT
MCP1316T-23LI/OT
MCP1316T-24MI/OT
MCP1316T-25LE/OT
MCP1316T-26JE/OT
MCP1316T-26LE/OT
MCP1316T-27LE/OT
MCP1316T-29AE/OT
MCP1316T-29EE/OT
MCP1316T-29LE/OT
MCP1316T-29NE/OT
MCP1316T-30CE/OT
MCP1316T-30FE/OT
MCP1316T-31LE/OT
MCP1316T-32LE/OT
MCP1316T-44JE/OT
MCP1316T-44LE/OT
MCP1316T-44NE/OT
MCP1316T-46BE/OT
MCP1316T-46CE/OT
MCP1316T-46FE/OT
MCP1316T-46KE/OT
MCP1316T-46LE/OT
MCP1316T-47FE/OT
MCP1317T-25LE/OT
MCP1317T-29LE/OT
MCP1317T-31AE/OT
MCP1317T-31LE/OT
MCP1317T-46LE/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPC550
CATALOG_PART_NBR
MCP1318MT-29BE/OT
MCP1318MT-29LE/OT
MCP1318MT-46BE/OT
MCP1318MT-46LE/OT
MCP1318T-29EE/OT
MCP1318T-29HE/OT
MCP1318T-29LE/OT
MCP1318T-29LE/OTV09
MCP1318T-45LE/OT
MCP1318T-46LE/OT
MCP1318T-46ME/OT
MCP1319MT-24QI/OT
MCP1319MT-26EE/OT
MCP1319MT-28LE/OT
MCP1319MT-29LE/OT
MCP1319MT-30GE/OT
MCP1319MT-33AE/OT
MCP1319MT-46LE/OT
MCP1319MT-47QE/OT
MCP1319T-28LE/OT
MCP1319T-29CE/OT
MCP1319T-29LE/OT
MCP1319T-44LE/OT
MCP1319T-46LE/OT
MCP1319T-47QE/OT
MCP1320T-19HI/OT
MCP1320T-25LE/OT
MCP1320T-27ME/OT
MCP1320T-29BE/OT
MCP1320T-29FE/OT
MCP1320T-29GE/OT
MCP1320T-29LE/OT
MCP1320T-29ME/OT
MCP1320T-29RE/OT
MCP1320T-30BE/OT
MCP1320T-30FE/OT
MCP1320T-30LE/OT
MCP1320T-31KE/OT
MCP1320T-31LE/OT
MCP1320T-41LE/OT
MCP1320T-42EE/OT
MCP1320T-42JE/OT
MCP1320T-46BE/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
MCP1320T-46FE/OT
MCP1320T-46GE/OT
MCP1320T-46KE/OT
MCP1320T-46LE/OT
MCP1321T-20LI/OT
MCP1321T-20LI/OT713
MCP1321T-20QI/OT
MCP1321T-26GE/OT
MCP1321T-29AE/OT
MCP1321T-29CE/OT
MCP1321T-29DE/OT
MCP1321T-29FE/OT
MCP1321T-29KE/OT
MCP1321T-29LE/OT
MCP1321T-29ME/OT
MCP1321T-30LE/OT
MCP1321T-31LE/OT
MCP1321T-43BE/OT
MCP1321T-46CE/OT
MCP1321T-46LE/OT
MCP1322T-27LE/OT
MCP1322T-29CE/OT
MCP1322T-29LE/OT
MCP1322T-31GE/OT
MCP1322T-31LE/OT
MCP1322T-32AE/OT
MCP1322T-44LE/OT
MCP1322T-46EE/OT
MCP1322T-46LE/OT
MCP1401T-E/OT
MCP1402T-E/OT
MCP1415T-E/OT
MCP1416T-E/OT
MCP1754T-1802E/OT
MCP1754T-3002E/OT
MCP1754T-3302E/OT
MCP1754T-5002E/OT
MCP1824T-0802E/OT
MCP1824T-1202E/OT
MCP1824T-1802E/OT
MCP1824T-2502E/OT
MCP1824T-3002E/OT
MCP1824T-3302E/OT

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PCN_GBNG-12CPPC550
CATALOG_PART_NBR
MCP1824T-5002E/OT
MCP1824T-ADJE/OT
MCP1824T-ADJE/OTAAA
MCP3021A0T-E/OT
MCP3021A1T-E/OT
MCP3021A2T-E/OT
MCP3021A3T-E/OT
MCP3021A4T-E/OT
MCP3021A5T-E/OT
MCP3021A5T-I/OT
MCP3021A6T-E/OT
MCP3021A7T-E/OT
MCP3221A0T-E/OT
MCP3221A1T-E/OT
MCP3221A2T-E/OT
MCP3221A3T-E/OT
MCP3221A4T-E/OT
MCP3221A5T-E/OT
MCP3221A5T-I/OT
MCP3221A6T-E/OT
MCP3221A7T-E/OT
MCP4014T-103E/OT
MCP4014T-202E/OT
MCP4014T-502E/OT
MCP4014T-503E/OT
MCP4024T-103E/OT
MCP4024T-202E/OT
MCP4024T-502E/OT
MCP4024T-503E/OT
MCP6001UT-E/OT
MCP6001UT-I/OT
MCP601T-E/OT
MCP601T-I/OT
MCP601T-I/OTAPL
MCP6021T-E/OT
MCP6021T-E/OTHAZ
MCP6041T-E/OT
MCP6041T-I/OT
MCP6041T-I/OTBAA
MCP606T-I/OT
MCP6141T-E/OT
MCP6231T-E/OT

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PCN_GBNG-12CPPC550
CATALOG_PART_NBR
MCP6231UT-E/OT
MCP6241T-E/OT
MCP6241UT-E/OT
MCP6271T-E/OT
MCP6281T-E/OT
MCP6286T-E/OT
MCP6291T-E/OT
MCP6291T-E/OTHAZ
MCP6401T-E/OT
MCP6401T-H/OT
MCP6401UT-E/OT
MCP6406T-H/OT
MCP6421T-E/OT
MCP6441T-E/OT
MCP6471T-E/OT
MCP6481T-E/OT
MCP6491T-E/OT
MCP6541UT-E/OT
MCP6546UT-E/OT
MCP6561T-E/OT
MCP6561UT-E/OT
MCP6566T-E/OT
MCP6G01T-E/OT
MCP6G01UT-E/OT
MCP6H01T-E/OT
MCP6L01UT-E/OT
MCP6L1T-E/OT
MCP6L71T-E/OT
MCP6L91T-E/OT
MCP6V11T-E/OT
MCP6V11UT-E/OT
MCP6V31T-E/OT
MCP6V31UT-E/OT
MCP6V61T-E/OT
MCP6V61UT-E/OT
MCP6V71T-E/OT
MCP6V71UT-E/OT
MCP6V81T-E/OT
MCP6V81UT-E/OT
MCP6V91T-E/OT
MCP6V91UT-E/OT
MCP73811T-420I/OT
MCP73811T-435I/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
MCP73811T-440I/OT
MCP73811T-450I/OT
MCP73812T-420I/OT
MCP73812T-435I/OT
MCP73812T-440I/OT
MCP73812T-450I/OT
MCP73826-4.1VCHTR
MCP73826-4.2VCHTR
MCP73831T-2ACI/OT
MCP73831T-2ACI/OTAAA
MCP73831T-2ADI/OT
MCP73831T-2ATI/OT
MCP73831T-2DCI/OT
MCP73831T-3ACI/OT
MCP73831T-4ADI/OT
MCP73831T-5ACI/OT
MCP73832T-2ACI/OT
MCP73832T-2ACI/OTAAA
MCP73832T-2ATI/OT
MCP73832T-2DCI/OT
MCP73832T-2DFI/OT
MCP73832T-3ACI/OT
MCP73832T-4ADI/OT
MCP73832T-5ACI/OT
MCP9501PT-005E/OT
MCP9501PT-015E/OT
MCP9501PT-025E/OT
MCP9501PT-035E/OT
MCP9501PT-045E/OT
MCP9501PT-055E/OT
MCP9501PT-065E/OT
MCP9501PT-075E/OT
MCP9501PT-085E/OT
MCP9501PT-095E/OT
MCP9501PT-105E/OT
MCP9501PT-105E/OTRT
MCP9501PT-115E/OT
MCP9501PT-115E/OTRT
MCP9501PT-125E/OT
MCP9501PT-125E/OTRT
MCP9501PT-135E/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
MCP9501PT-145E/OT
MCP9502PT-005E/OT
MCP9502PT-015E/OT
MCP9502PT-025E/OT
MCP9502PT-035E/OT
MCP9502PT-045E/OT
MCP9502PT-055E/OT
MCP9502PT-065E/OT
MCP9502PT-075E/OT
MCP9502PT-085E/OT
MCP9502PT-095E/OT
MCP9502PT-095E/OTA20
MCP9502PT-105E/OT
MCP9502PT-115E/OT
MCP9502PT-125E/OT
MCP9502PT-135E/OT
MCP9502PT-145E/OT
MCP9503NT-005E/OT
MCP9503NT-015E/OT
MCP9503NT-025E/OT
MCP9503NT-035E/OT
MCP9503NT-045E/OT
MCP9503NT-055E/OT
MCP9503PT-005E/OT
MCP9503PT-015E/OT
MCP9503PT-025E/OT
MCP9504NT-005E/OT
MCP9504NT-015E/OT
MCP9504NT-025E/OT
MCP9504NT-035E/OT
MCP9504NT-045E/OT
MCP9504NT-055E/OT
MCP9504PT-005E/OT
MCP9504PT-015E/OT
MCP9504PT-025E/OT
MCP9509CT-E/OT
MCP9509HST-E/OT
MCP9509HT-E/OT
MCP9509HT-E/OTBAB
MCP9800A0T-M/OT
MCP9800A0T-M/OTRC2
MCP9800A1T-M/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
MCP9800A1T-M/OTRC2
MCP9800A2T-M/OT
MCP9800A2T-M/OTRC2
MCP9800A3T-M/OT
MCP9800A3T-M/OTRC2
MCP9800A4T-M/OT
MCP9800A4T-M/OTRC2
MCP9800A5T-M/OT
MCP9800A5T-M/OTRC2
MCP9800A6T-M/OT
MCP9800A6T-M/OTRC2
MCP9800A7T-M/OT
MCP9800A7T-M/OTRC2
MCP9802A0T-M/OT
MCP9802A0T-M/OTRC2
MCP9802A1T-M/OT
MCP9802A1T-M/OTRC2
MCP9802A2T-M/OT
MCP9802A2T-M/OTRC2
MCP9802A3T-M/OT
MCP9802A3T-M/OTRC2
MCP9802A4T-M/OT
MCP9802A4T-M/OTRC2
MCP9802A5T-M/OT
MCP9802A5T-M/OTRC2
MCP9802A6T-M/OT
MCP9802A6T-M/OTRC2
MCP9802A7T-M/OT
MCP9802A7T-M/OTRC2
MTCH101-I/OT
MTCH101T-I/OT
PIC10F200-E/OT
PIC10F200-I/OT
PIC10F200-I/OT204
PIC10F200T-E/OT
PIC10F200T-E/OT030
PIC10F200T-E/OT124
PIC10F200T-E/OT147
PIC10F200T-E/OT159
PIC10F200T-E/OT186
PIC10F200T-E/OT191
PIC10F200T-E/OT198
PIC10F200T-I/OT

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
PIC10F200T-I/OT051
PIC10F200T-I/OT071
PIC10F200T-I/OT077
PIC10F200T-I/OT102
PIC10F200T-I/OT107
PIC10F200T-I/OT108
PIC10F200T-I/OT119
PIC10F200T-I/OT125
PIC10F200T-I/OT127
PIC10F200T-I/OT128
PIC10F200T-I/OT130
PIC10F200T-I/OT131
PIC10F200T-I/OT134
PIC10F200T-I/OT140
PIC10F200T-I/OT151
PIC10F200T-I/OT153
PIC10F200T-I/OT157
PIC10F200T-I/OT158
PIC10F200T-I/OT160
PIC10F200T-I/OT161
PIC10F200T-I/OT163
PIC10F200T-I/OT168
PIC10F200T-I/OT169
PIC10F200T-I/OT170
PIC10F200T-I/OT177
PIC10F200T-I/OT180
PIC10F200T-I/OT182
PIC10F200T-I/OT183
PIC10F200T-I/OT185
PIC10F200T-I/OT190
PIC10F200T-I/OT192
PIC10F200T-I/OT194
PIC10F200T-I/OT195
PIC10F200T-I/OT196
PIC10F200T-I/OT197
PIC10F200T-I/OT199
PIC10F200T-I/OT200
PIC10F200T-I/OT202
PIC10F200T-I/OT204
PIC10F200T-I/OT205
PIC10F200T-I/OT208
PIC10F200T-I/OT209
PIC10F200T-I/OT211

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Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
PIC10F200T-I/OT212
PIC10F202-E/OT
PIC10F202-I/OT
PIC10F202T-E/OT
PIC10F202T-E/OT081
PIC10F202T-E/OT096
PIC10F202T-E/OT109
PIC10F202T-I/OT
PIC10F202T-I/OT065
PIC10F202T-I/OT084
PIC10F202T-I/OT085
PIC10F202T-I/OT088
PIC10F202T-I/OT090
PIC10F202T-I/OT105
PIC10F202T-I/OT106
PIC10F202T-I/OT108
PIC10F204-E/OT
PIC10F204-I/OT
PIC10F204T-E/OT
PIC10F204T-E/OT028
PIC10F204T-E/OT038
PIC10F204T-E/OT050
PIC10F204T-I/OT
PIC10F204T-I/OT020
PIC10F204T-I/OT033
PIC10F204T-I/OT043
PIC10F204T-I/OT051
PIC10F206-E/OT
PIC10F206-I/OT
PIC10F206T-E/OT
PIC10F206T-I/OT
PIC10F206T-I/OT030
PIC10F206T-I/OT031
PIC10F206T-I/OT032
PIC10F206T-I/OT041
PIC10F206T-I/OT043
PIC10F206T-I/OT044
PIC10F220-E/OT
PIC10F220-I/OT
PIC10F220T-E/OT
PIC10F220T-E/OT030
PIC10F220T-I/OT
PIC10F220T-I/OT027

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
PIC10F220T-I/OT028
PIC10F220T-I/OT035
PIC10F220T-I/OT037
PIC10F220T-I/OT040
PIC10F222-E/OT
PIC10F222-I/OT
PIC10F222T-E/OT
PIC10F222T-E/OT023
PIC10F222T-I/OT
PIC10F222T-I/OT020
PIC10F222T-I/OT032
PIC10F222T-I/OT033
PIC10F222T-I/OT038
PIC10F222T-I/OT039
PIC10F222T-I/OT044
PIC10F222T-I/OT045
PIC10F222T-I/OT047
PIC10F222T-I/OT048
PIC10F222T-I/OT052
PIC10F222T-I/OT053
PIC10F222T-I/OT055
PIC10F222T-I/OT056
TC1014-1.8VCT713
TC1014-2.5VCT713
TC1014-2.6VCT713
TC1014-2.7VCT713
TC1014-2.85VCT713
TC1014-2.8VCT713
TC1014-3.0VCT713
TC1014-3.1VCT713
TC1014-3.3VCT713
TC1014-3.6VCT713
TC1014-4.0VCT713
TC1014-5.0VCT713
TC1015-1.8VCT713
TC1015-2.5VCT713
TC1015-2.6VCT713
TC1015-2.6VCT713BAE
TC1015-2.7VCT713
TC1015-2.85VCT713
TC1015-2.85VCT713BAF
TC1015-2.85VCT723

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
TC1015-2.8VCT713
TC1015-2.8VCT713BAB
TC1015-2.8VCT723
TC1015-3.0VCT713
TC1015-3.0VCT723
TC1015-3.0VCTMR
TC1015-3.1VCT713
TC1015-3.2VCT713
TC1015-3.3VCT713
TC1015-3.3VCT713BAC
TC1015-3.3VCT723
TC1015-3.3VCTMR
TC1015-3.6VCT713
TC1015-3.6VCT723
TC1015-3.6VCTMR
TC1015-3.8VCT713
TC1015-4.0VCT713
TC1015-4.0VCT723
TC1015-4.0VCTMR
TC1015-5.0VCT713
TC1015-5.0VCTMR
TC1016-1.85VCTTR
TC1016-1.8VCTTR
TC1016-2.6VCTTR
TC1016-2.7VCTTR
TC1016-2.85VCTTR
TC1016-2.8VCTTR
TC1016-2.9VCTTR
TC1016-3.0VCTTR
TC1016-3.3VCTTR
TC1016-4.0VCTTR
TC1017-1.85VCTTR
TC1017-1.8VCTTR
TC1017-1.9VCTTR
TC1017-2.0VCTTR
TC1017-2.5VCTTR
TC1017-2.6VCTTR
TC1017-2.7VCTTR
TC1017-2.85VCTTR
TC1017-2.8VCTTR
TC1017-2.9VCTTR
TC1017-3.0VCTTR
TC1017-3.3VCTTR

GBNG-12CPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPC550
CATALOG_PART_NBR
TC1017-4.0VCTTR
TC1054-1.8VCT713
TC1054-2.5VCT713
TC1054-2.6VCT713
TC1054-2.7VCT713
TC1054-2.85VCT713
TC1054-2.8VCT713
TC1054-3.0VCT713
TC1054-3.3VCT713
TC1054-3.6VCT713
TC1054-4.0VCT713
TC1054-4.2VCT713
TC1054-5.0VCT713
TC1055-1.8VCT713
TC1055-2.5VCT713
TC1055-2.6VCT713
TC1055-2.7VCT713
TC1055-2.85VCT713
TC1055-2.8VCT713
TC1055-3.0VCT713
TC1055-3.3VCT713
TC1055-3.6VCT713
TC1055-4.0VCT713
TC1055-5.0VCT713
TC1070VCT713
TC1070VCT713AA
TC1071VCT713
TC1072-1.8VCH713
TC1072-2.5VCH713
TC1072-2.6VCH713
TC1072-2.7VCH713
TC1072-2.85VCH713
TC1072-2.8VCH713
TC1072-3.0VCH713
TC1072-3.3VCH713
TC1072-3.6VCH713
TC1072-4.0VCH713
TC1072-5.0VCH713
TC1073-1.8VCH713
TC1073-2.5VCH713
TC1073-2.6VCH713
TC1073-2.7VCH713
TC1073-2.85VCH713

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
TC1073-2.8VCH713
TC1073-3.0VCH713
TC1073-3.3VCH713
TC1073-3.6VCH713
TC1073-4.0VCH713
TC1073-5.0VCH713
TC1185-1.8VCT713
TC1185-2.0VCT713
TC1185-2.5VCT713
TC1185-2.6VCT713
TC1185-2.7VCT713
TC1185-2.85VCT713
TC1185-2.85VCTMR
TC1185-2.8VCT713
TC1185-2.8VCT723
TC1185-2.8VCTMR
TC1185-2.95VCT713
TC1185-3.0VCT713
TC1185-3.0VCT723
TC1185-3.0VCTMR
TC1185-3.2VCT713
TC1185-3.3VCT713
TC1185-3.3VCT723
TC1185-3.6VCT713
TC1185-4.0VCT713
TC1185-4.15VCT713
TC1185-5.0VCT713
TC1186-1.8VCT713
TC1186-2.5VCT713
TC1186-2.5VCT723
TC1186-2.5VCTMR
TC1186-2.6VCT713
TC1186-2.7VCT713
TC1186-2.7VCT723
TC1186-2.7VCTMR
TC1186-2.85VCT713
TC1186-2.85VCT723
TC1186-2.85VCTMR
TC1186-2.8VCT713
TC1186-2.8VCTMR
TC1186-2.8VCTTR
TC1186-3.0VCT713
TC1186-3.0VCT723

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
TC1186-3.0VCTMR
TC1186-3.3VCT713
TC1186-3.6VCT713
TC1186-4.0VCT713
TC1186-5.0VCT713
TC1187VCT713
TC1187VCT713AAA
TC1187VCTMR
TC1188QECTTR
TC1188RECTTR
TC1188SECTTR
TC1188TECTTR
TC1189QECTTR
TC1189RECTTR
TC1189SECTTR
TC1189TECTTR
TC1189TECTTRBAA
TC1223-1.8VCTTR
TC1223-2.5VCTTR
TC1223-2.6VCTTR
TC1223-2.7VCTTR
TC1223-2.85VCTTR
TC1223-2.8VCTTR
TC1223-3.0VCTTR
TC1223-3.3VCTTR
TC1223-3.6VCTTR
TC1223-4.0VCTTR
TC1223-4.2VCTTR
TC1223-5.0VCTTR
TC1224-1.8VCTTR
TC1224-2.5VCTTR
TC1224-2.6VCTTR
TC1224-2.7VCTTR
TC1224-2.85VCTTR
TC1224-2.8VCTRT
TC1224-2.8VCTTR
TC1224-3.0VCTTR
TC1224-3.1VCT715
TC1224-3.1VCTMR
TC1224-3.1VCTTR
TC1224-3.3VCTTR
TC1224-3.6VCTTR
TC1224-4.0VCTTR

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
TC1224-5.0VCTTR
TC2014-1.8VCTTR
TC2014-2.5VCTTR
TC2014-2.6VCTTR
TC2014-2.7VCTTR
TC2014-2.85VCTTR
TC2014-2.8VCTTR
TC2014-3.0VCTTR
TC2014-3.3VCTTR
TC2014-5.0VCTTR
TC2015-1.8VCTTR
TC2015-2.5VCTTR
TC2015-2.6VCTTR
TC2015-2.7VCTTR
TC2015-2.85VCTTR
TC2015-2.8VCTTR
TC2015-3.0VCTTR
TC2015-3.3VCTTR
TC2015-5.0VCTTR
TC2054-1.8VCTTR
TC2054-2.5VCTTR
TC2054-2.6VCTTR
TC2054-2.7VCTTR
TC2054-2.85VCTTR
TC2054-2.8VCTTR
TC2054-3.0VCTTR
TC2054-3.3VCTTR
TC2054-5.0VCTTR
TC2055-1.8VCTTR
TC2055-2.5VCTTR
TC2055-2.6VCTTR
TC2055-2.7VCTTR
TC2055-2.85VCTTR
TC2055-2.8VCTTR
TC2055-3.0VCTTR
TC2055-3.3VCTTR
TC2055-5.0VCTTR
TC2185-1.8VCTTR
TC2185-2.5VCTTR
TC2185-2.6VCTTR
TC2185-2.7VCTTR
TC2185-2.85VCTTR
TC2185-2.8VCTTR

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
TC2185-3.0VCTTR
TC2185-3.3VCTTR
TC2185-5.0VCTTR
TC2186-1.8VCTTR
TC2186-2.5VCTTR
TC2186-2.6VCTTR
TC2186-2.7VCTTR
TC2186-2.85VCTTR
TC2186-2.8VCTTR
TC2186-3.0VCTTR
TC2186-3.3VCTTR
TC2186-5.0VCTTR
TC6501P045VCTTR
TC6501P055VCTTR
TC6501P065VCTTR
TC6501P075VCTTR
TC6501P085VCTTR
TC6501P095VCTR
TC6501P095VCTTR
TC6501P095VCTTRAAB
TC6501P105VCTR
TC6501P105VCTTR
TC6501P105VCTTRAAC
TC6501P115VCTTR
TC6501P115VCTTRAAD
TC6501P120VCTTR
TC6501P120VCTTRAAF
TC6501P125VCTR
TC6501P125VCTTR
TC6501P125VCTTRAAE
TC6502P045VCTTR
TC6502P055VCTTR
TC6502P065VCTTR
TC6502P075VCTTR
TC6502P085VCTTR
TC6502P095VCTTR
TC6502P105VCTTR
TC6502P115VCTTR
TC6502P125VCTTR
TC6503N015VCTTR
TC6503P005VCTTR
TC6504N015VCTTR
TC6504P005VCTTR

GBNG-12CPPC550_CCB 3006 and 3006.001 Final Notice: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material.

Affected Catalog Part Numbers (CPN)

PCN_GBNG-12CPPC550
CATALOG_PART_NBR
TC74A0-3.3VCTTR
TC74A0-5.0VCTTR
TC74A1-3.3VCTTR
TC74A1-5.0VCTTR
TC74A2-3.3VCTTR
TC74A2-5.0VCTTR
TC74A3-3.3VCTTR
TC74A3-5.0VCTTR
TC74A4-3.3VCTTR
TC74A4-5.0VCTTR
TC74A5-3.3VCTTR
TC74A5-5.0VCTTR
TC74A6-3.3VCTTR
TC74A6-5.0VCTTR
TC74A7-3.3VCTTR
TC74A7-5.0VCTTR
TC77-3.3MCTTR
TC77-5.0MCTTR
TCM828ECT713
TCM828ECT723
TCM828ECTMR
TCM828VT713
TCM829ECT713
TCM829ECT723
TCM829ECTMR



MICROCHIP

QUALIFICATION REPORT SUMMARY

RELIABILITY LABORATORY

PCN #: GBNG-12CPPC550

Date
November 01, 2017

Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material. The 5L SOT-23 package will qualify by similarity.



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PACKAGE QUALIFICATION REPORT

Purpose: Qualification of MMT as an additional assembly site for selected products available in 5L and 6L SOT-23 package using 8900NC die attach material. The 5L SOT-23 package will qualify by similarity.

CCB No: 3006 and 3006.001

CN ES117910
QUAL ID Q17156
MP CODE DEBU8YC8XA00
Part No. 25LC040AT-E/OT
Bonding No. BDM-001366 Rev. B

Package

Type 6L SOT-23
Die thickness 8 mils
Die size 54.50 x 29.80 mils

Lead Frame

Paddle size 72 x 41 mils
Material CDA194
Surface Ag spot
Process Stamp
Part Number 10100602
Treatment None

Material

Epoxy 8900NC
Wire Au wire
Mold Compound G600V
Plating Composition Matte Tin



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PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-182101056.000	TMPE 217529675.320	173396D
MMT-182201026.000	TMPE 217529675.320	1734B9B
MMT-182201027.000	TMPE 217529675.320	1734B9C

Result Pass Fail _____

6L SOT-23 assembled by MMT (ALPH) pass reliability test per QCI-39000.
This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020D standard.

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
Moisture/Reflow Sensitivity Classification Test (At MSL Level 1)	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020D)	IPC/JEDEC J-STD-020D	135	0/135	Pass	

Precondition Prior Perform Reliability Tests (At MSL Level 1)	Electrical Test :+25°C System: NEXTEST_PT	JESD22-A113	693(0)	693	Pass	Good Devices
	Bake 150°C, 24 hrs System: CHINEE			693		
	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH			693		
	3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243			693		
	Electrical Test :+25°C System: NEXTEST_PT			0/693		

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H	JESD22-A104		231		Parts had been pre-conditioned at 260°C 77 units / lot
	Electrical Test: + 25°C System: NEXTEST_PT		231(0)	0/231	Pass	
	Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)		15 (0)	0/15	Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22-A118		231		Parts had been pre-conditioned at 260°C 77 units / lot
	Electrical Test: +25°C System: NEXTEST_PT		231(0)	0/231	Pass	
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 3.6 Volts System: HAST 6000X	JESD22-A110		231		Parts had been pre-conditioned at 260°C 77 units / lot
	Electrical Test: +25°C System: NEXTEST_PT		231(0)	0/231	Pass	
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	JESD22-A103		45		45 units
	Electrical Test :+25°C System: NEXTEST_PT		45(0)	0/45	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Bond Line Thickness	Bond Line Thickness	SPI-45528	15(0)	15(0)	Pass	
Wire sweep	Wire sweep Inspection 15 Wires / lot	-	45(0) Wires	0/45		
Physical Dimensions	Physical Dimension, 30 units from 1 lot	JESD22- B100/B108	30(0) Units	0/30	Pass	
Bond Strength Data Assembly	Wire Pull (> 2.5 grams)	M2011	30 (0) Wires	0/30	Pass	
	Bond Shear (>15.00 grams)	JESD22- B116	30 (0) bonds	0/30	Pass	