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## Product Change Notification - CYER-22HRGG767

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**Date:** 08 Nov 2010

**Product Category:** Memory; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers

**Device Family:** 

**Notification subject:** CCB 990.06: Qualification of 3, 5, and 6L SOT-23 packages with SG-8300GM mold compound at MTAI assembly site.

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

**Microchip Part#s Affected:**  
See attachments of affected catalog part numbers (CPN) labeled as...  
PCN\_CYER-22HRGG767\_Affected\_CPN.xls  
PCN\_CYER-22HRGG767\_Affected\_CPN.pdf

**Description of Change:**  
Qualification of the 6L SOT-23 package with SG-8300GM mold compound at MTAI assembly site and the 3 and 5L SOT-23 packages will qualify by similarity.

**Pre Change:**  
G600V

**Post Change:**  
SG-8300GM

**Impacts to Data Sheet:**  
None

**Reason for Change:**  
To improve productivity

**Change Implementation Status:**  
In Progress

**Estimated First Ship Date:**  
December 31, 2010 (Date code 1101)

**NOTE:** Please be advised that during the transition period customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

**Markings to Distinguish Revised from Unrevised Devices:**  
Traceability code

**Attachment(s):** [PCN\\_CYER-22HRGG767\\_Affected\\_CPN.pdf](#)  
[PCN\\_CYER-22HRGG767\\_Affected\\_CPN.xls](#)  
[PCN\\_CYER-22HRGG767\\_Qual Report.pdf](#)

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

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Parts Affected

11AA010  
11AA020  
11AA02E48  
11AA040  
11AA080  
11AA160  
11LC010  
11LC020  
11LC040  
11LC080  
11LC160  
24AA00  
24AA01  
24AA014  
24AA01H  
24AA02  
24AA025  
24AA025E48  
24AA02E48  
24AA02H  
24AA04  
24AA04H  
24AA08  
24AA08H  
24AA16  
24AA16H  
24AA32A  
24AA32AF  
24AA64  
24AA64F  
24C00  
24C01C  
24LC00  
24LC014  
24LC01B  
24LC01BH  
24LC025  
24LC02B  
24LC02BH  
24LC04B  
24LC04BH  
24LC08B  
24LC08BH

24LC16B  
24LC16BH  
24LC32A  
24LC32AF  
24LC64  
24LC64F  
24VL014  
24VL025  
25AA010A  
25AA020A  
25AA02E48  
25AA040A  
25LC010A  
25LC020A  
25LC040A  
34AA02  
34LC02  
34VL02  
93AA46A  
93AA46B  
93AA56A  
93AA56B  
93AA66A  
93AA66B  
93AA76A  
93AA76B  
93AA86A  
93AA86B  
93C46A  
93C46B  
93C56A  
93C56B  
93C66A  
93C66B  
93C76A  
93C76B  
93C86A  
93C86B  
93LC46A  
93LC46B  
93LC56A  
93LC56B  
93LC66A  
93LC66B  
93LC76A

93LC76B  
93LC86A  
93LC86B  
MCP100  
MCP101  
MCP102  
MCP103  
MCP111  
MCP112  
MCP120  
MCP121  
MCP130  
MCP131  
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MCP1316M  
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MCP1319M  
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MCP1322  
MCP1401  
MCP1402  
MCP1415  
MCP1416  
MCP1525  
MCP1541  
MCP1700  
MCP1824  
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MCP3421  
MCP3425  
MCP4012  
MCP4013  
MCP4014  
MCP4022  
MCP4023  
MCP4024  
MCP4725  
MCP6001  
MCP601  
MCP6021

MCP603  
MCP6041  
MCP6043  
MCP606  
MCP6141  
MCP6143  
MCP6231  
MCP6231R  
MCP6231U  
MCP6241  
MCP6241R  
MCP6241U  
MCP6271  
MCP6271R  
MCP6273  
MCP6281  
MCP6281R  
MCP6283  
MCP6286  
MCP6291  
MCP6291R  
MCP6293  
MCP6401  
MCP6401R  
MCP6401U  
MCP6541  
MCP6546  
MCP6561  
MCP6566  
MCP6G01  
MCP6G01R  
MCP6G01U  
MCP6L01  
MCP6L01R  
MCP6L01U  
MCP6L1  
MCP6L1R  
MCP6L71  
MCP6L71R  
MCP6L91R  
MCP73811  
MCP73812  
MCP73826  
MCP73831  
MCP73832

MCP809  
MCP810  
MCP9509  
MCP9510  
MCP9700  
MCP9700A  
MCP9701  
MCP9701A  
MCP9800  
MCP9802  
PIC10F200  
PIC10F202  
PIC10F204  
PIC10F206  
PIC10F220  
PIC10F222  
TC1014  
TC1015  
TC1016  
TC1017  
TC1034  
TC1035  
TC1037  
TC1039  
TC1046  
TC1047  
TC1047A  
TC1054  
TC1055  
TC1070  
TC1071  
TC1072  
TC1073  
TC1185  
TC1186  
TC1187  
TC1188  
TC1189  
TC1219  
TC1220  
TC1221  
TC1222  
TC1223  
TC1224  
TC1240

TC1240A  
TC1270A  
TC1270AN  
TC1271A  
TC1272  
TC1272A  
TC1273  
TC1274  
TC1275  
TC1276  
TC1277  
TC1278  
TC1279  
TC2014  
TC2015  
TC2054  
TC2055  
TC2185  
TC2186  
TC6501  
TC6502  
TC6503  
TC6504  
TC670  
TC74  
TC77  
TCM809  
TCM810  
TCM828  
TCM829

PCN# - CYER-22HRGG767
CATALOG PART NBR
11AA010T-I/TT
11AA020T-I/TT
11AA02E48T-I/TT
11AA040T-I/TT
11AA080T-I/TT
11AA160T-I/TT
11LC010T-I/TT
11LC020T-I/TT
11LC040T-I/TT
11LC080T-I/TT
11LC160T-I/TT
24AA00T/OT
24AA00T-I/OT
24AA014T-I/OT
24AA01HT-I/OT
24AA01T-I/OT
24AA01T-I/OT101
24AA01T-I/OTB31
24AA025E48T-I/OT
24AA025T-I/OT
24AA02E48T-I/OT
24AA02HT-I/OT
24AA02T-I/OT
24AA02T-I/OT103
24AA02T-I/OT16KVAO
24AA04HT-I/OT
24AA04T-I/OT
24AA04T-I/OT103
24AA04T-I/OTB22
24AA04T-I/OTB26
24AA08HT-I/OT
24AA08T-I/OT
24AA08T-I/OT15KV01
24AA08T-I/OT15KVAO
24AA08T-I/OT16KV06
24AA08T-I/OTB22
24AA16HT-I/OT
24AA16T-I/OT
24AA32AFT-I/OT
24AA32AT-I/OT
24AA64FT-I/OT
24AA64T-I/OT
24C00T/OT
24C00T-E/OT
24C00T-E/OTC43
24C00T-E/OTV01
24C00T-I/OT
24C00T-I/OTVAO
24C01CT-E/OT
24C01CT-I/OT



24LC00T/OT
24LC00T-I/OT
24LC00T-I/OTA31
24LC00T-I/OTV02
24LC014T-I/OT
24LC01BHT-E/OT
24LC01BHT-I/OT
24LC01BT/OT
24LC01BT-E/OT
24LC01BT-E/OT12KV05
24LC01BT-I/OT
24LC01BT-I/OT100
24LC01BT-I/OT105
24LC01BT-I/OT15KV02
24LC01BT-I/OTA24
24LC01BT-I/OTA35
24LC01BT-I/OTA36
24LC01BT-I/OTG12KVAO
24LC01BT-I/OTG15KVAO
24LC01BT-I/OTRVE
24LC01BT-I/OTV02
24LC01BT-I/OTVAO
24LC025T-E/OT
24LC025T-I/OT
24LC02BHT-E/OT
24LC02BHT-I/OT
24LC02BT-E/OT
24LC02BT-E/OT16KVAO
24LC02BT-I/OT
24LC02BT-I/OT15KVAO
24LC02BT-I/OTA31
24LC04BHT-E/OT
24LC04BHT-I/OT
24LC04BT-E/OT
24LC04BT-E/OT15KV03
24LC04BT-I/OT
24LC08BHT-E/OT
24LC08BHT-I/OT
24LC08BT-E/OT
24LC08BT-E/OT15KV04
24LC08BT-E/OT15KVAO
24LC08BT-E/OT16KV01
24LC08BT-E/OT16KVAO
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24LC08BT-I/OT15KV02
24LC08BT-I/OT15KV03
24LC08BT-I/OT15KVAO
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24LC16BT-I/OT15KV11
24LC16BT-I/OT16KV01
24LC16BT-I/OTG15KV04
24LC16BT-I/OTG15KV05
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24LC32AFT-I/OT
24LC32AT-E/OT
24LC32AT-E/OT16KVAO
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24LC32AT-I/OT16KV01
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24VL025T/OT
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25LC020AT-I/OT
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25LC040AT-E/OT16KVAO
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93AA46BT-I/OT
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93AA66BT-I/OT
93AA76AT-I/OT
93AA76BT-I/OT
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93LC66BT-I/OT15KV07
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93LC76AT-I/OT15KV03
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93LC76BT-I/OT15KVAO
93LC86AT-E/OT
93LC86AT-I/OT
93LC86BT-I/OT
93LC86BT-I/OT15KV01
93LC86BT-I/OT15KVAO
HA1208-I/OT
HA1208T-I/OT
HA4233T-I/OT066
MCP100T-270I/TT
MCP100T-270I/TTAAA

MCP100T-300I/TT
MCP100T-315I/TT
MCP100T-450I/TT
MCP100T-460I/TT
MCP100T-475I/TT
MCP100T-485I/TT
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MCP101T-475I/TT
MCP101T-485I/TT
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MCP102T-195I/TTV01
MCP102T-240E/TT
MCP102T-270E/TT
MCP102T-300E/TT
MCP102T-300E/TTVAO
MCP102T-315E/TT
MCP102T-450E/TT
MCP102T-475E/TT
MCP103T-195I/TT
MCP103T-240E/TT
MCP103T-270E/TT
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MCP103T-315E/TT
MCP103T-450E/TT
MCP103T-475E/TT
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MCP111T-475E/TT
MCP112T-195I/TT
MCP112T-240E/TT
MCP112T-270E/TT
MCP112T-290E/TT
MCP112T-300E/TT
MCP112T-315E/TT
MCP112T-450E/TT
MCP112T-450E/TTV01
MCP112T-475E/TT
MCP120T-270I/TT

MCP120T-300I/TT
MCP120T-315I/TT
MCP120T-450I/TT
MCP120T-450I/TT S01
MCP120T-460I/TT
MCP120T-475I/TT
MCP120T-485I/TT
MCP121T-195I/TT
MCP121T-240E/TT
MCP121T-270E/TT
MCP121T-300E/TT
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MCP121T-315E/TT AAA
MCP121T-416E/TT
MCP121T-450E/TT
MCP121T-450E/TT V01
MCP121T-475E/TT
MCP130T-270I/TT
MCP130T-300I/TT
MCP130T-315I/TT
MCP130T-315I/TT V01
MCP130T-450I/TT
MCP130T-460I/TT
MCP130T-475I/TT
MCP130T-485I/TT
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MCP1316MT-20LI/OT
MCP1316MT-23LE/OT
MCP1316MT-23LI/OT
MCP1316MT-26CE/OT
MCP1316MT-29KE/OT
MCP1316MT-29LE/OT
MCP1316MT-29ME/OT
MCP1316MT-31LE/OT
MCP1316MT-46LE/OT
MCP1316T-20LE/OT
MCP1316T-20LI/OT
MCP1316T-24MI/OT
MCP1316T-26JE/OT
MCP1316T-27LE/OT
MCP1316T-29AE/OT
MCP1316T-29LE/OT
MCP1316T-29NE/OT
MCP1316T-30CE/OT
MCP1316T-30FE/OT
MCP1316T-30FE/OT V04
MCP1316T-30FE/OT VAO
MCP1316T-44JE/OT
MCP1316T-44LE/OT
MCP1316T-44NE/OT
MCP1316T-46BE/OT
MCP1316T-46CE/OT

MCP1316T-46FE/OT
MCP1316T-46FE/OTV02
MCP1316T-46FE/OTV13
MCP1316T-46LE/OT
MCP1316T-47FE/OT
MCP1317T-25LE/OT
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MCP1317T-31AE/OT
MCP1317T-31LE/OT
MCP1317T-46LE/OT
MCP1318MT-29LE/OT
MCP1318MT-46LE/OT
MCP1318T-29HE/OT
MCP1318T-29LE/OT
MCP1318T-29LE/OTV09
MCP1318T-46LE/OT
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MCP1319MT-24QE/OT
MCP1319MT-24QI/OT
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MCP131T-315E/TT
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MCP1320T-46BE/OT
MCP1320T-46GE/OT

MCP1320T-46GE/OTV11
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MCP1320T-46LE/OT
MCP1320T-46LE/OTV05
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MCP1321T-20LE/OT
MCP1321T-20LI/OT
MCP1321T-26GE/OT
MCP1321T-29AE/OT
MCP1321T-29CE/OT
MCP1321T-29KE/OT
MCP1321T-29LE/OT
MCP1321T-29LE/OTV10
MCP1321T-29ME/OT
MCP1321T-31LE/OT
MCP1321T-46CE/OT
MCP1321T-46LE/OT
MCP1322T-29LE/OT
MCP1322T-32AE/OT
MCP1322T-44LE/OT
MCP1322T-46EE/OT
MCP1322T-46EE/OTV06
MCP1322T-46LE/OT
MCP1401T-E/OT
MCP1402T-E/OT
MCP1415T-E/OT
MCP1416RT-E/OT
MCP1416T-E/OT
MCP1525T-I/TT
MCP1525T-I/TTGV01
MCP1525T-I/TTVAO
MCP1541T-I/TT
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MCP1700T-1302E/TT
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MCP1700T-1502E/TT
MCP1700T-1502E/TTV03
MCP1700T-1502E/TTV04
MCP1700T-1502E/TTVAO
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MCP1700T-1602E/TT
MCP1700T-1702E/TT
MCP1700T-1801E/TT
MCP1700T-1802E/TT
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MCP1700T-1902E/TT
MCP1700T-2002E/TT
MCP1700T-2102E/TT
MCP1700T-2201E/TT
MCP1700T-2202E/TT

MCP1700T-2301E/TT
MCP1700T-2301E/TTV02
MCP1700T-2302E/TT
MCP1700T-2402E/TT
MCP1700T-2501E/TT
MCP1700T-2502E/TT
MCP1700T-2502I/TT
MCP1700T-2601E/TT
MCP1700T-2602E/TT
MCP1700T-2702E/TT
MCP1700T-2801E/TT
MCP1700T-2802E/TT
MCP1700T-2802I/TT
MCP1700T-2902E/TT
MCP1700T-3001E/TT
MCP1700T-3002E/TT
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MCP1700T-3002I/TT
MCP1700T-3102E/TT
MCP1700T-3102I/TT
MCP1700T-3202E/TT
MCP1700T-3301E/TT
MCP1700T-3302E/TT
MCP1700T-3302E/TTAAC
MCP1700T-3302E/TTAAE
MCP1700T-3302E/TTHH
MCP1700T-3302E/TTV01
MCP1700T-3302I/TT
MCP1700T-3402E/TT
MCP1700T-3501E/TT
MCP1700T-3502E/TT
MCP1700T-3601E/TT
MCP1700T-3602E/TT
MCP1700T-3702E/TT
MCP1700T-3802E/TT
MCP1700T-3902E/TT
MCP1700T-4001E/TT
MCP1700T-4002E/TT
MCP1700T-4002I/TT
MCP1700T-4101E/TT
MCP1700T-4102E/TT
MCP1700T-4202E/TT
MCP1700T-4302E/TT
MCP1700T-4402E/TT
MCP1700T-4502E/TT
MCP1700T-4602E/TT
MCP1700T-4702E/TT
MCP1700T-4802E/TT
MCP1700T-4902E/TT
MCP1700T-5002E/TT
MCP1700T-5002E/TTAAD
MCP1700T-5002I/TT



MCP1824T-0802E/OT
MCP1824T-1202E/OT
MCP1824T-1802E/OT
MCP1824T-2502E/OT
MCP1824T-3002E/OT
MCP1824T-3302E/OT
MCP1824T-5002E/OT
MCP1824T-ADJE/OT
MCP1824T-ADJE/OTAAA
MCP1824T-ADJE/OTVAO
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
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TC2015-3.3VCTTR
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TC2054-2.8VCTTR
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TCM828VT713
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TCM829ECT713-GVAO
TCM829ECT713-VAO
TCM829ECT723
TCM829ECTMR



**MICROCHIP**

**QUALIFICATION REPORT**  
RELIABILITY LABORATORY

**PCN#: CYER-22HRGG767**

Date  
October 27, 2010

**Qualification of the 6L SOT-23 package with SG-8300GM mold compound at MTAI assembly site and the 3 and 5L SOT-23 packages will qualify by similarity**

Distribution

Surasit P.  
Wanphen L.  
Wichai K.  
Suchart S.

Rangsun K.  
C.K. Barlingay  
R. Sharma

Microchip Technology (Thailand) Co., Ltd.  
14 Moo 1 T.Wangtakien A. Muangchacherngsao,  
Chacherngsao, Thailand, 24000  
Tel. (+66 38) 857119-45, 857311-19 ext. 1231  
Fax (+66 38) 857149-50



## MICROCHIP PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of the 6L SOT-23 package with SG-8300GM mold compound at MTAI assembly site and the 3 and 5L SOT-23 packages will qualify by similarity
<b>CN</b>	BC102190
<b>QUAL ID</b>	Q10088
<b>MP CODE</b>	DEBA2TC8XB04
<b>Part No.</b>	PIC10F202T-I/OT
<b>Bonding No.</b>	A-035380 Rev. E
<b>CCB No.</b>	990.06
<b><u>Package</u></b>	
<b>Type</b>	6L SOT23
<b>Package size</b>	-
<b>Die thickness</b>	8 mils
<b>Die size</b>	32.40 x 51.80 mils
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	41 x 72 mils
<b>Material</b>	CDA194
<b>Surface</b>	Ag spot
<b>Process</b>	Stamped
<b>Lead Lock</b>	No
<b>Part Number</b>	10100602
<b><u>Die attach material</u></b>	
<b>Epoxy</b>	8900NC
<b>Wire</b>	Au wire
<b>Mold Compound</b>	SG-8300GM
<b>Plating Composition</b>	Matte Tin



# MICROCHIP PACKAGE QUALIFICATION REPORT

## Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA1112302587	TMPE211145973.000	1036VPB
MTA1112302960	TMPE211145973.000	1036WC5
MTA1112302933	TMPE211145973.000	1036WB7

### Result

Pass  Fail  \_\_\_\_\_

6L SOT23 assembled by MTAI 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-020C standard.

Prepared By: \_\_\_\_\_ ) Date: October 27, 2010 (Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By: \_\_\_\_\_ ) Date: October 27, 2010 (Reliability Manager)

(Mr. Surasit Phurikhup)

**PACKAGE QUALIFICATION REPORT**

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
<b><u>MSL</u></b>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 ( IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	09/13/10	09/22/10	0/135	Pass	
<b><u>Precondition</u></b>								
Electrical Test	Electrical Test : +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302587.000)	S12/14/16 (PDC)	693(0)	09/08/10	09/13/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		09/14/10	09/15/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		09/15/10	09/22/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		09/22/10	09/22/10	693		
Electrical Test	Electrical Test : +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302587.000)	S12/14/16 (PDC)		09/27/10	10/02/10	0/693	Pass	

## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
<b>Temp Cycle</b>	<b>Stress Condition:</b> -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		10/04/10	10/16/10	231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302587.000)	S12/14/16 (PDC)	30(0) 231(0)	10/16/10	10/16/10	0/30 0/231	Pass	77 units / lot
	<b>Bond Strength:</b> Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	10/18/10 10/18/10	10/18/10 10/18/10	0/15 0/15	Pass Pass	
<b>Pressure Cooker</b>	<b>Stress Condition:</b> +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B		10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> +25°C System: J750	S12/14/16 (PDC)	231(0)	10/08/10	10/11/10	0/231	Pass	77 units / lot

**PACKAGE QUALIFICATION REPORT**

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
<b>HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302587.000)	S12/14/16 (PDC)	231(0)	10/08/10	10/13/10	0/231	Pass	77 units / lot
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		09/10/10	10/03/10	45		45 units
	<b>Electrical Test:</b> +25°C and 85°C System: J750	(PDC)	45(0)	10/03/10	10/04/10	0/45	Pass	
<b>Bond Strength Data Assembly</b>	Bond Shear (12.40 grams)		30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	-	0/30	Pass	