

Product Change Notification - JAON-04FCXY806

Date: 18 Feb 2015

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

Notification subject: CCB 1491 Final Notice: Qualification of G700LTD molding compound and 8600 die attach epoxy for selected DFN, TDFN, UDFN and VDFN packages at NSEB site.

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

Microchip Parts Affected:

See attachments of affected catalog part numbers (CPN) labeled as...

PCN_JAON-04FCXY806_Affected_CPN.xls

PCN_JAON-04FCXY806_Affected_CPN.pdf

Description of Change:

Qualification of G700LTD molding compound and 8600 die attach epoxy for 6L DFN (2x2x0.9mm), 8L DFN (2x3x0.9mm), 8L DFN (4x4x0.9mm), 10L DFN (3x3x0.9mm), 8L TDFN (2x3x0.8mm), 8L UDFN (2x3x0.5mm), 10L UDFN (3x3x0.5mm), 8L VDFN (4x4x1.0mm) and 8L VDFN (5x5x1.0mm) packages at NSEB assembly site.

Pre Change:

G770HCD molding compound and 8200T die attach epoxy

Post Change:

G700LTD molding compound and 8600 die attach epoxy

Impacts to Data Sheet:

None

Reason for Change:

To improve manufacturability by qualifying molding compound and die attach material.

Change Implementation Status:

In Progress

Estimated First Ship Date:

February 28, 2015 (date code: 1509)

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

Markings to Distinguish Revised from Unrevised Devices:

Traceability code

Revision History:

February 18, 2015: Issued final notification.

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_JAON-04FCXY806_Qual_Report.pdf](#) [PCN_JAON-04FCXY806_Affected_CPN.pdf](#) [PCN_JAON-04FCXY806_Affected_CPN.xls](#)

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PCN_JAON-04FCXY806
CATALOG_PART_NBR
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11AA020T-I/MNY
11AA040T-I/MNY
11AA080T-I/MNY
11AA160T-I/MNY
11AA161T-I/MNY
11LC010T-E/MNY
11LC010T-I/MNY
11LC020T-E/MNY
11LC020T-I/MNY
11LC040T-E/MNY
11LC040T-I/MNY
11LC080T-E/MNY
11LC080T-I/MNY
11LC160T-E/MNY
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TC6320K6-G-D626



MICROCHIP

QUALIFICATION REPORT
RELIABILITY LABORATORY

PCN #: JAON-04FCXY806

Date
September 23, 2014

Qualification of G700LTD mold compound and 8600 die attach for 8L DFN-S (6x5x0.9mm) package at NSEB (UTL) assembly site. The 6L DFN (2x2x0.9mm), 8L DFN (2x3x0.9mm), 8L DFN (4x4x0.9mm), 10L DFN (3x3x0.9mm), 8L TDFN (2x3x0.8mm), 8L UDFN (2x3x0.5mm), 10L UDFN (3x3x0.5mm), 8L VDFN (4x4x1.0mm) and 8L VDFN (5x5x1.0mm) packages will qualify by similarity at NSEB assembly site.

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PACKAGE QUALIFICATION REPORT

Purpose Qualification of G700LTD mold compound and 8600 die attach for 8L DFN-S (6x5x0.9mm) package at NSEB (UTL) assembly site. The 6L DFN (2x2x0.9mm), 8L DFN (2x3x0.9mm), 8L DFN (4x4x0.9mm), 10L DFN (3x3x0.9mm), 8L TDFN (2x3x0.8mm), 8L UDFN (2x3x0.5mm), 10L UDFN (3x3x0.5mm), 8L VDFN (4x4x1.0mm) and 8L VDFN (5x5x1.0mm) packages will qualify by similarity at NSEB assembly site.

CN BC140755
QUAL ID Q14097
MP CODE DECR27A6XA00
Part No. 25LC1024-I/MF
Bonding No. BDE-002669 Rev. 01
CCB No. 1336.02

Package

Type 8L DFN-S
Package size 6x5x0.9 mm
Die thickness 11 mils
Die size 122.1 x 149.9 mils

Lead Frame

Paddle size 173 x 173 mils
Material EFTEC-64T
Surface Ag ring
Process Etched
Part Number FR0221

Die attach material

Epoxy 8600
Wire Au wire
Mold Compound G700LTD
Plating Composition Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
NSEB 151100198.000	TMPE214479184.A00	1424H24
NSEB 151100199.000	TMPE214479184.A00	1424H28
NSEB 151100200.000	TMPE214479184.A00	1424H29

Result ☒ Pass ☐ Fail ☐ _____

8L DFN (6x5x0.9 mm) assembled by UTL (NSEB) 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.

Note: Found Puncture damage after Temp Cycle 500 refer FA#14-08141 See attachment4

Prepared By:  **Date:** September 23, 2014 (Sr. Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By:  **Date:** September 23, 2014 (Reliability Manager)

(Mr. Somnuek Thongprasert)

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 C J-STD- 020D	135	0/135	Pass	

<u>Precondition Prior Perform Reliability Tests (At MSL Level 1)</u>	Electrical Test :+25°C and 85°C System: NEXTEST_PT	JESD22- A113	693(0)	693		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 and 85°C System: NEXTEST_PT			0/693	Pass	

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 Electrical Test: + 85°C System: NEXTEST_PT Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)	JESD22-A104		231		Parts had been pre-conditioned at 260°C
			231(0)	0/231	Pass	77 units / lot
			15 (0)	0/15	Pass	
			15 (0)	0/15	Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X Electrical Test: +25°C System: NEXTEST_PT	JESD22-A118		231		Parts had been pre-conditioned at 260°C
			231(0)	0/231	Pass	77 units / lot
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X Electrical Test: +25°C and 85°C System: NEXTEST_PT	JESD22-A110		231		Parts had been pre-conditioned at 260°C
			231(0)	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB Electrical Test : +25°C and 85°C System: NEXTEST_PT	JESD22-A103		45		45 units
			45(0)	0/45	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Solderability Temp 215°C	Steam Aging: Temp 93°C,8Hrs System: SAS-3000 Solder Dipping: Solder Temp.215°C Solder material: SnPb Sn63,Pb37 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	JESD22B-102E	22 (0)	22 22 0/22	Pass	
Solderability Temp 245°C	Steam Aging: Temp 93°C,8Hrs System: SAS-3000 Solder Dipping:Solder Temp.245°C Solder material:Pb Free Sn 95.5Ag3.9 Cu0.6 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	JESD22B-102E	22 (0)	22 22 0/22	Pass	
Bond Strength Data Assembly	Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)	M2011 JESD22-B116	30 (0) Wires 30 (0) bonds	0/30 0/30	Pass Pass	