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Product Change Notification - JAON-14SNXR959

Date: 16 Mar 2015
Notification subject: CCB 1465 Final Notice: Qualification of 100L TQFP (12x12x1mm) with 240x240 Lead-Frame Paddle size at ASAC assembly site.

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

Microchip Parts Affected:

See attachments of affected catalog part numbers (CPN) labeled as...
 PCN_JAON-14SNXR959_Affected_CPN.xls
 PCN_JAON-14SNXR959_Affected_CPN.pdf

Description of Change:

Qualification of 100L TQFP (12x12x1mm) with 240x240 Lead-Frame Paddle size at ASAC assembly site.

Pre Change:

Assembled at MTAI assembly site.

Post Change:

Assembled at MTAI and ASAC assembly sites.

Impacts to Data Sheet:

None

Reason for Change:

To improve on-time delivery performance by qualifying an additional assembly site – ASAC.

Change Implementation Status:

Complete

Estimated First Ship Date:

March 16, 2015 (date code: 1512)

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:

October 20, 2014: Issued initial notification.

March 16, 2015: Issued final notification. Attached the qualification report. Updated the device used in the Qualification report. Revised the estimated first ship date from May 1, 2015 to March 16, 2015.

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-14SNXR959_Qual_Report.pdf](#)
[PCN_JAON-14SNXR959_Affected_CPN.pdf](#)
[PCN_JAON-14SNXR959_Affected_CPN.xls](#)

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MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: JAON-14SNXR959

**Date:
January 26, 2015**

**Qualification of 100L TQFP (12x12x1mm) with 240x240 Lead-
Frame Paddle size at ASAC assembly site**

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose Qualification of 100L TQFP (12x12x1mm) with 240x240 Lead-Frame Paddle size at ASAC assembly site

CN BC141921

QUAL ID Q14183

MP CODE TDAA17V7XCC8

Part No. PIC32MX575F512L-80I/PT

Bonding No. BDM-000647 Rev.C

CCB No. 1465

Package

Type 100L TQFP

Package size 12x12x1 mm

Die thickness 11 mils

Die size 225.80 x 219.50 mils

Lead Frame

Paddle size 240 x 240 mils

Material C7025

Surface Bare Cu on DAP

Process Stamp

Lead Lock No

Treatment Ag Plating & Brown Oxide L/F

Die attach material

Epoxy 2200

Wire Au wire

Mold Compound G700

Plating Composition Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT


Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
ASAC153000122.000	TC03915224032.100	1443YJG
ASAC153000123.000	TC03915224032.100	1443YJH
ASAC153000124.000	TC03915224032.100	1443YJJ

Result

Pass Fail _____

100L TQFP (12x12x1mm) assembled by UDG (ASAC) pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 3 at 260°C reflow temperature per IPC/JEDEC J-STD-020D standard.

Prepared By:  Date: January 26, 2015 (Sr. Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By:  Date: January 26, 2015 (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 3)	30°C/ 60%RH Moisture Soak 192 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	

Precondition Prior Perform Reliability Tests (At MSL Level 3)	Electrical Test :+25°C,85°C and -40°C System: J750	JESD22- A113	693(0)	693	Pass	Good Devices
	Bake 150°C, 24 hrs System: CHINEE			693		
	30°C/ 60%RH Moisture Soak 192 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: J750			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: + 85°C System: J750		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: J750		231(0)	0/231	Pass	
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 2.0 Volts System: HAST 6000X	JESD22- A110		231		Parts had been pre-conditioned at 260°C 77 units / lot
	Electrical Test: +25°C and 85°C System: J750		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 and 85°C System: J750		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	

PCN_JAON-14SNXR959
CATALOG_PART_NBR
DSPIC33EP128GM310-E/PT
DSPIC33EP128GM310-H/PT
DSPIC33EP128GM310-I/PT
DSPIC33EP128GM310T-I/PT
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