

Product Change Notification - CYER-27ZBHN138

Date: 18 Sep 2013

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

Notification subject: CCB 1155.04 Final Notification: Qualification of selected products available in the 8L SOIC package with palladium coated copper (PdCu) bond wire at MTAI assembly site.

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

Microchip Parts Affected:

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

PCN_CYER-27ZBHN138_Affected_CPN.xls

PCN_CYER-27ZBHN138_Affected_CPN.pdf

Description of Change:

Qualification of selected products available in the 8L SOIC package with palladium coated copper (PdCu) bond wire at MTAI assembly site.

NOTE: Selected products are non-automotive only for both

standalone analog and PIC MCU products. Please review the affected CPN lists (attached) to identify the actual parts affected.

Pre Change:

Gold (Au) wire

Post Change:

Palladium coated copper (PdCu) wire

Impacts to Data Sheet:

None

Reason for Change:

To improve manufacturability

Change Implementation Status:

Complete

Estimated First Ship Dates:

October 18, 2013 (Date code: 1342)

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:

September 18, 2013: Final notification issue date.

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_CYER-27ZBHN138_Affected CPN.pdf](#) [PCN_CYER-27ZBHN138_Qual Report.pdf](#) [PCN_CYER-27ZBHN138_Affected CPN.xlsx](#)

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

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PCN_CYER-27ZBHN138
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HA0611T-I/SN
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HA1100T/SN
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TCN75AVOA
TCN75AVOA713



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-27ZBHN138

Date
September 11, 2013

Qualification of selected products available in the 8L SOIC package with palladium coated copper (PdCu) bond wire at MTAI assembly site.

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of selected products available in the 8L SOIC package with palladium coated copper (PdCu) bond wire at MTAI assembly site.
CN	BC130355
QUAL ID	Q13060
MP CODE	C50237C2XB04
Part No.	PIC12F675-I/SN
Bonding No.	A-042191 Rev. B
CCB No.	1155.04
<u>Package</u>	
Type	8L SOIC
Package size	150 mils
Die thickness	15 mils
Die size	77.90 x85.70 mils
<u>Lead Frame</u>	
Paddle size	95 x 158 mils
Material	CDA194
Surface	Brown Oxide Treatment
Process	Stamp
Lead Lock	No
Part Number	10100807
<u>Die attach material</u>	
Epoxy	8390A
Wire	PdCu wire
Mold Compound	G600V
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MT AI140402046	TMPE213445640.110	1317T3B
MT AI140402217	TMPE213445640.110	1317TAE
MT AI140402218	TMPE213445640.110	1317TAG

Result

Pass Fail _____

8L SOIC 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-020D standard.

Prepared By: _____ **Date:** August 22, 2013 (Reliability Engineer)

(Mr. Thinnapol Nakkasun)

Approved By: _____ **Date:** August 22, 2013 (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</u> <u>Prior Perform</u> <u>Reliability Tests</u> (At MSL Level 1)	Electrical Test :+25°C,85°C and 125°C System: J750	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,85°C and 125°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: (Standard) -65°C to +150°C, 50, 250, 500 Cycles System : TABAI ESPEC TSA-70H Electrical Test: + 85°C and 125°C System: J750	JESD22- A104	231(0)	0/231	Pass	
UNBIASED-HAST	Stress Condition: (Standard) +130°C/85%RH, 96 hrs. System: HAST 6000X Electrical Test: + 25°C System: J750	JESD22- A118	231(0)	0/231	Pass	
HAST	Stress Condition: (Standard) +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X Electrical Test: +25°C,85°C and 125°C System: J750	JESD22- A110	231(0)	0/231	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB Electrical Test: :+ 25°C,85°C and 125°C System: J750	JESD22- A103		45		45 units
			45(0)	0/45	Pass	
Bond Strength Data Assembly	Wire Pull (> 2.5 grams)	JESD22- B116	30 (0) Wires	0/30	Pass	
	Bond Shear (15.00 grams)		30 (0) bonds	0/30	Pass	