

Product Change Notification - IIRA-03OEGH109

Date: 01 Apr 2014

Product Category: 8-bit Microcontrollers; Analog (Linear & Mixed Signal) AND Interface; Analog (Thermal, Power Management & Safety); 16-bit Microcontrollers and Digital Signal Controllers; Touch Sensing Technologies; SMSC

Notification subject: CCB 1355.03 Final Notice: Qualification of selected products in 28L QFN (6x6x0.9, 5x5x0.9mm), 20L QFN (5x5x0.9, 4x4x0.9mm) and 16L QFN (4x4x0.9, 3x3x0.9mm) with 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_IIRA-03OEGH109_Affected_CPN.xls

PCN_IIRA-03OEGH109_Affected_CPN.pdf

Description of Change:

Qualification of selected products in 28L QFN (6x6x0.9, 5x5x0.9mm), 20L QFN (5x5x0.9, 4x4x0.9mm) and 16L QFN (4x4x0.9, 3x3x0.9mm) with PdCu bond wire at MTAI assembly site.

NOTE: Selected products are non-automotive standalone analog and PIC MCU devices. Please review the affected CPN lists (attached) to identify the actual parts affected.

Impacts to Data Sheet:

None

Reason for Change:

To improve manufacturability

Change Implementation Status:

In Progress

Estimated First Ship Date:

April 10, 2014 (date code: 1415)

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:

January 9, 2014: Issued initial notification.

April 1, 2014: Issued final notification. Attached the qualification report. Revised the estimated first ship date from March 28, 2014 to April 10, 2014.

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_IIRA-03OEGH109_Affected CPN.pdf](#) [PCN_IIRA-03OEGH109_Qual Report.pdf](#) [PCN_IIRA-03OEGH109_Affected CPN.xls](#)

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

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PCN_IIRA-03OEGH109
CATALOG_PART_NBR
A010201-I/MQ
A010201T-I/MQ
AR1010-I/ML
AR1010T-I/ML
AR1011-I/ML
AR1011T-I/ML
AR1020-I/ML
AR1020T-I/ML
AR1021-I/ML
AR1021T-I/ML
AR1100-I/MQ
AR1100T-I/MQ
DSPIC30F1010-20E/MM
DSPIC30F1010-30I/MM
DSPIC30F1010T-20E/MM
DSPIC30F1010T-30I/MM
DSPIC30F2010-20E/MM
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DSPIC30F2010T-20E/MM
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PIC24FJ64GA002T-I/ML
PIC24FJ64GA002T-I/ML022
PIC24FJ64GA002T-I/MLC03
PIC24FJ64GA102-E/ML
PIC24FJ64GA102-I/ML
PIC24FJ64GA102T-I/ML
PIC24FJ64GB002-I/ML
PIC24FJ64GB002T-I/ML
PIC24FV08KM102-E/ML
PIC24FV08KM102-I/ML
PIC24FV08KM102T-I/ML
PIC24FV08KM202-E/ML
PIC24FV08KM202-I/ML
PIC24FV08KM202T-I/ML
PIC24FV16KA302-E/ML
PIC24FV16KA302-I/ML
PIC24FV16KA302T-I/ML
PIC24FV16KM102-E/ML
PIC24FV16KM102-I/ML
PIC24FV16KM102T-I/ML
PIC24FV16KM202-E/ML
PIC24FV16KM202-I/ML
PIC24FV16KM202T-I/ML
PIC24FV32KA302-E/ML

PIC24FV32KA302-I/ML
PIC24FV32KA302T-I/ML
PIC24HJ128GP202-E/MM
PIC24HJ128GP202-I/MM
PIC24HJ128GP202T-E/MM
PIC24HJ128GP202T-I/MM
PIC24HJ128GP502-E/MM
PIC24HJ128GP502-H/MM
PIC24HJ128GP502-I/MM
PIC24HJ128GP502T-E/MM
PIC24HJ128GP502T-H/MM
PIC24HJ128GP502T-I/MM
PIC24HJ12GP202-E/ML
PIC24HJ12GP202-I/ML
PIC24HJ12GP202T-E/ML
PIC24HJ12GP202T-I/ML
PIC24HJ32GP202-E/MM
PIC24HJ32GP202-H/MM
PIC24HJ32GP202-I/MM
PIC24HJ32GP202T-E/MM
PIC24HJ32GP202T-H/MM
PIC24HJ32GP202T-I/MM
PIC24HJ32GP302-E/MM
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PIC24HJ64GP202-E/MM
PIC24HJ64GP202-I/MM
PIC24HJ64GP202T-E/MM
PIC24HJ64GP202T-I/MM
PIC24HJ64GP502-E/MM
PIC24HJ64GP502-H/MM
PIC24HJ64GP502-I/MM
PIC24HJ64GP502T-E/MM
PIC24HJ64GP502T-H/MM
PIC24HJ64GP502T-I/MM



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: IIRA-03OEGH109

Date:
March 06, 2014

Qualification of PdCu bond wire for selected products available in 28L QFN (6x6x0.9mm) package at MTAI assembly site. The 28L QFN (5x5x0.9mm), 20L QFN (5x5x0.9, 4x4x0.9mm) and 16L QFN (4x4x0.9, 3x3x0.9mm) packages will qualify by similarity at MTAI assembly site.

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose Qualification of PdCu bond wire for selected products available in 28L QFN (6x6x0.9mm) package at MTAI assembly site. The 28L QFN (5x5x0.9mm), 20L QFN (5x5x0.9, 4x4x0.9mm) and 16L QFN (4x4x0.9, 3x3x0.9mm) packages will qualify by similarity at MTAI assembly site.

CN BC132053

QUAL ID Q13145

MP CODE LEBE14M4XDXF

Part No. PIC24FV16KA302-E/ML

Bonding No. BDM-000436 Rev. A

CCB No. 1355.03

Package

Type 28L QFN

Package size 6x6x0.9 mm

Die thickness 11 mils

Die size 127.40 x 158.50 mils

Lead Frame

Paddle size 173 x 173 mils

Material A194

Surface Bare Cu

Process Etched

Lead Lock Yes

Part Number 10102828

Treatment Micro Etching (ME-2)

Die attach material

Epoxy 3280

Wire PdCu wire

Mold Compound G700LTD

Plating Composition Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MT AI143802991	TMPE413082597.410	1351J1V
MT AI143802992	TMPE413082597.410	1351J1W
MT AI143802993	TMPE413082597.400	1351J1Y

Result

Pass Fail _____

28L QFN (6x6x0.9 mm) 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: *Thinnapol* Date: March 06, 2014 (Sr. Reliability Engineer)

(Mr. Thinnapol Nakkasun)

Approved By: *Som* Date: March 06, 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</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 and 85°C System: J750 (With 1 lot 125°C on MTA1143802991.000)			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, 500 Cycles System : TABAI ESPEC TSA-70H Electrical Test: + 85°C System: : J750 (With 1 lot 125°C on MTAI143802991.000) Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (15.00 grams)	JESD22- A104	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C
			15 (0)	0/15	Pass	
			15 (0)	0/15	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	Parts had been pre-conditioned at 260°C
HAST	Stress Condition: (Standard) +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X Electrical Test: + 25°C and 85°C System: : J750 (With 1 lot 125°C on MTAI143802991.000)	JESD22- A110	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C

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	JESD22- B102	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	JESD22- B102	22 (0)	22 22 0/22	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) Bond Shear (13.00 grams)	M2011 JESD22- B116	30 (0) Wires 30 (0) bonds	0/30 0/30	Pass Pass	