

Product Change Notification - JAON-09ONJN702

Date: 22 Dec 2014

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

Notification subject: CCB 1155.36 Final Notice: Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP

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

Microchip Parts Affected:

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

PCN_JAON-09ONJN702_Affected_CPN.xls

PCN_JAON-09ONJN702_Affected_CPN.pdf

Description of Change:

Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP package at MTAI assembly site.

NOTE: Selected products are non-automotive 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 and qualify PdCu bond wire at MTAI assembly site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

January 9, 2015 (date code: 1502)

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.

December 22, 2014: Issued final notification. Attached the qualification report. Revised the estimated first ship date from December 19, 2014 to January 9, 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-09ONJN702_Qual_Report.pdf](#) [PCN_JAON-09ONJN702_Affected CPN.pdf](#) [PCN_JAON-09ONJN702_Affected CPN.xls](#)

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PCN_JAON-09ONJN702
CATALOG_PART_NBR
A010201-I/SS
A010201T-I/SS
AR1010-I/SS
AR1010T-I/SS
AR1011-I/SS
AR1011T-I/SS
AR1020-I/SS
AR1020T-I/SS
AR1021-I/SS
AR1021T-I/SS
AR1100-I/SS
AR1100T-I/SS
CFPIC-I/SSC01
DSPIC33FJ06GS001-E/SS
DSPIC33FJ06GS001-I/SS
DSPIC33FJ06GS001T-E/SS
DSPIC33FJ06GS001T-I/SS
DSPIC33FJ06GS101A-E/SS
DSPIC33FJ06GS101A-I/SS
DSPIC33FJ06GS101AT-E/SS
DSPIC33FJ06GS101AT-I/SS
DSPIC33FJ16GP101-E/SS
DSPIC33FJ16GP101-H/SS
DSPIC33FJ16GP101-I/SS
DSPIC33FJ16GP101T-E/SS
DSPIC33FJ16GP101T-I/SS
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HA1515T-I/SS
HA2022-I/SS
HA2022T-I/SS
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HA2525T-I/SS
HA2580-I/SS
HA2580T-I/SS
HA5288-I/SS
HA5288T-I/SS
HB12-100POS/12PB30
HC12-100PAS/12PC51
HI12-100PAS/12PI30
HI12-100PIS/12PI30
HI12-100PIS/12PI30TR
HS12-100P0/12PS0F
HS12-100P0/12PS0FTR
HS12-100P0/12PS15
HS12-100POS/12PS25
HS12-100POS/12PS25TR
HS12-100POS/12PS30
HS12-100POS/12PS30TR
HS12-100PAS/12PS30TR
HS12-100PIS/12PS25
HS12-100PIS/12PS30
HT12-100POS/12PT49
HT12-100POS/12PT49TR
HT12-100PAS/12PT49
HT12-100PDS/12PA49
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PIC16F88T-I/SS
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PIC16HV785-I/SS
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PIC16LC58BT-04/SS074
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PIC16LC622AT-04I/SS
PIC16LC622T-04/SS
PIC16LC710-04/SS
PIC16LC710-04I/SS
PIC16LC711-04/SS
PIC16LC711-04E/SS
PIC16LC711-04I/SS
PIC16LC711T-04/SS
PIC16LC711T-04I/SS
PIC16LC712-04/SS
PIC16LC712-04I/SS
PIC16LC712T-04I/SS
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PIC16LC770T-I/SS021
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PIC16LF1826-I/SS
PIC16LF1826T-I/SS
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PIC16LF1827-I/SS
PIC16LF1827T/SS
PIC16LF1827T/SSC01
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PIC24FJ32MC101T-I/SS
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PIC24FV08KM101T-I/SS
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PIC24FV16KA301T-I/SS
PIC24FV32KA301-E/SS
PIC24FV32KA301-I/SS
PIC24FV32KA301T-I/SS
SW1100T-I/SS



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: JAON-09ONJN702

**Date
December 04, 2014**

Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP package at MTAI assembly site.

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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

Purpose Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP package at MTAI assembly site.

CN BC141660

QUAL ID Q14152-01

MP CODE DEBW14G3XBXF

Part No. PIC18F1330-E/SS

Bonding No. A-043064 Rev. B

CCB No.: 1155.36

Package Type

Package size 209 mils

Die thickness 15 mils

Die size 111.30 x 132.70 mils

Lead Frame

Paddle size 154 x 200 mils

Material A194

Surface Bare copper on paddle

Process Stamp

Lead Lock Yes

Part Number 10102012

Treatment Brown Oxide Treatment

Die attach material

Epoxy 3280

Wire PdCu wire

Mold Compound G600

Plating Composition Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MTAI152801693.000	GRSM415103283.000	1441EPR

Result

Pass Fail _____

20L SSOP (.209") 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: December 04, 2014 (Sr. Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By: _____ Date: December 04, 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	45	0/45	Pass	

Precondition Prior Perform Reliability Tests (At MSL Level 1)	Electrical Test :+25°C,85°C and 125°C System: J750	JESD22- A113	231(0)	231	Pass	Good Devices
	Bake 150°C, 24 hrs System: CHINEE			231		
	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH			231		
	3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243			231		
	Electrical Test :+25°C,85°C and 125°C System: J750			0/231		

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	JESD22- A104		77		Parts had been pre-conditioned at 260°C
	Electrical Test: + 85°C and 125°C System: J750		77(0)	0/77	Pass	
	Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)		15 (0)	0/15	Pass	
UNBIASED-HAST	Stress Condition: (Standard) +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		77		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: J750		77(0)	0/77	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
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	77 77(0)	77 0/77	Pass	Parts had been pre-conditioned at 260°C
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(0)	45 0/45	Pass	
Cross section	Cross section Inspection 3 units / lot	-	3(0) Wires	0/3		
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	