

# Product Change Notification - JAON-29UDMC755

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<b>Date:</b>	29 Jan 2015
<b>Product Category:</b>	Memory; Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers
<b>Notification subject:</b>	CCB 1444.03 Final Notice: Qualification of palladium coated copper (PdCu) bond wire for selected products of 150K and 160K wafer technologies in 8L SOIC package at MMT assembly site.
<b>Notification text:</b>	<p><b>PCN Status:</b></p> <p>Final notification</p> <p><b>Microchip Parts Affected:</b></p> <p>See attachments of affected catalog part numbers (CPN) labeled as... PCN_JAON-29UDMC755_Affected_CPN.xls PCN_JAON-29UDMC755_Affected_CPN.pdf</p> <p><b>Description of Change:</b></p> <p>Qualification of palladium coated copper (PdCu) bond wire for selected products of 150K and 160K wafer technologies in 8L SOIC package at MMT assembly site.</p>

**Pre Change:**

Gold (Au) bond wire.

**Post Change:**

Palladium coated Copper (PdCu) bond wire or Gold (Au) bond wire.

**Impacts to Data Sheet:**

None

**Reason for Change:**

To improve manufacturability and qualify PdCu bond wire at MMT assembly site.

**Change Implementation Status:**

Complete

**Estimated First Ship Date:**

February 16, 2015 (date code: 1508)

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:**

**August 18, 2014:** Issued initial notification.

**January 29, 2015:** Issued final notification. Attached the qualification report. Revised the estimated first ship date from November 10, 2014 to February 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-29UDMC755\\_Qual\\_Report.pdf](#) [PCN\\_JAON-29UDMC755\\_Affected\\_CPN.pdf](#)  
[PCN\\_JAON-29UDMC755\\_Affected\\_CPN.xls](#)

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**MICROCHIP**

**QUALIFICATION REPORT  
RELIABILITY LABORATORY**

**PCN #: JAON-29UDMC755**

**Date  
January 08, 2015**

**Qualification of palladium coated copper (PdCu) bond wire at  
MMT assembly site for 160K wafer technology in 8L SOIC  
package. The 150K wafer technology will qualify by similarity.**

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## **MICROCHIP PACKAGE QUALIFICATION REPORT**

<b>Purpose</b>	Qualification of palladium coated copper (PdCu) bond wire at MMT assembly site for 160K wafer technology in 8L SOIC package. The 150K wafer technology will qualify by similarity.
<b>CN</b>	BC141912
<b>QUAL ID</b>	Q14166
<b>MP CODE</b>	DE0244C2XB04
<b>Part No.</b>	PIC12F683-E/SN
<b>Bonding No.</b>	BDM-000538 Rev. B
<b>CCB No.:</b>	1444.03
<b><u>Package</u></b>	
<b>Type</b>	8L SOIC
<b>Package size</b>	150 mils
<b>Die thickness</b>	15 mils
<b>Die size</b>	86.2 x 77.5 mils
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	95 x 130 mils
<b>Material</b>	CDA194
<b>Surface</b>	Bare Cu
<b>Process</b>	Stamped
<b>Lead Lock</b>	No
<b>Part Number</b>	10100819
<b>Treatment</b>	BOT
<b><u>Die attach material</u></b>	
<b>Epoxy</b>	8390A
<b>Wire</b>	PdCu
<b>Mold Compound</b>	G600V
<b>Plating Composition</b>	Matte Tin



# MICROCHIP PACKAGE QUALIFICATION REPORT

## Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-153300239.000	TMPE215187775.200	1446UQB
MMT-153300476.000	TMPE215187775.200	14464Q4
MMT-153300477.000	TMPE215187775.200	14464QT

**Result**       Pass       Fail       \_\_\_\_\_

8L SOIC (.150") assembled by MMT (ALPH) 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:** January 08, 2015 (Sr. Reliability Engineer)

(Mr. Udom Suksansakul)

**Approved By:**  **Date:** January 08, 2015 (Reliability Manager)

(Mr. Somnuek Thongprasert)

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
<b>Moisture/Reflow Sensitivity Classification Test (At MSL Level 1)</b>	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	

<b>Precondition Prior Perform Reliability Tests (At MSL Level 1)</b>	<b>Electrical Test</b> :+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		
	<b>Electrical Test</b> :+25°C and 85°C System: J750 (With 1 lot 125°C on MMT-153300239.000)			0/693		

## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>Temp Cycle</b>	<b>Stress Condition:</b> (Standard) -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H	JESD22- A104		77		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 85°C (With 1 lot 125°C on MMT-153300239.000) System: ETS300		77(0)	0/77	Pass	
	<b>Bond Strength:</b> Wire Pull (> 3.0 grams)		15 (0)	0/15	Pass	
	Bond Shear (>20.00 grams)		15 (0)	0/15	Pass	
<b>UNBIASED-HAST</b>	<b>Stress Condition:</b> (Standard) +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		77		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> +25°C System: ETS300		77(0)	0/77	Pass	

## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>HAST</b>	<b>Stress Condition:</b> (Standard) +130°C/85%RH, 96 hrs. <b>Bias Volt:</b> 5.0 Volts System: HAST 6000X  <b>Electrical Test:</b> +25°C and 85°C (With 1 lot 125°C on MMT-153300239.000) System: ETS300	JESD22- A110	77(0)	77  0/77	Pass	Parts had been pre-conditioned at 260°C
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: SHEL LAB  <b>Electrical Test:</b> +25°C ,85 °C and 125°C System: ETS300	JESD22- A103	45(0)	45  0/45	Pass	
<b>Bond Strength Data Assembly</b>	Wire Pull (> 3.0 grams)   Bond Shear (>20.00 grams)	M2011   JESD22- B116	30 (0) Wires  30 (0) bonds	0/30  0/30	Pass  Pass	