

# Product Change Notification - JAON-04PRHD989

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**Date:** 13 May 2015

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

**Notification subject:** CCB 1619 Initial Notice: Qualification of MMT assembly site for selected products in 40L PDIP package using gold (Au) bond wire.

**Notification text:**

## **PCN Status:**

Initial notification

## **Microchip Parts Affected:**

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

P<sub>CN</sub>\_JAON-04PRHD989\_Affected\_CPN.xls

P<sub>CN</sub>\_JAON-04PRHD989\_Affected\_CPN.pdf

## **Description of Change:**

Qualification of MMT assembly site for selected products in 40L PDIP package using gold (Au) bond wire.

## **Pre Change:**

MTAI assembly site.

**Post Change:**

MMT assembly site

**Impacts to Data Sheet:**

None

**Reason for Change:**

To improve manufacturability by qualifying MMT assembly site.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

June 15, 2015 (date code: 1525)

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:**

**May 13, 2015:** Issued initial notification.

The change described in this P<sub>CN</sub> does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

**Attachment(s):**

[PCN\\_JAON-04PRHD989\\_Qual\\_Plan.pdf](#) [PCN\\_JAON-04PRHD989\\_Affected\\_CPN.pdf](#) [PCN\\_JAON-04PRHD989\\_Affected\\_CPN.xls](#)

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PCN_JAON-04PRHD989
CATALOG_PART_NBR
AY0438/P
AY0438-I/P
DSPIC30F3011-20E/P
DSPIC30F3011-20I/P
DSPIC30F3011-30I/P
DSPIC30F3014-20E/P
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DSPIC30F4011-20I/P
DSPIC30F4011-30I/P
DSPIC30F4013-20E/P
DSPIC30F4013-20I/P
DSPIC30F4013-30I/P
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PIC16C64A-04I/P053
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TC7106CPL
TC7106IPL
TC7107ACPL
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TC7107CPL
TC7107IPL
TC7109ACPL
TC7109ACPL514
TC7109CPL
TC7116ACPL
TC7116CPL
TC7117ACPL
TC7117CPL
TC7126ACPL
TC7126CPL
TC7126IPL

TC7129CPL
TC850CPL



**MICROCHIP**

**QUALIFICATION PLAN**

**PCN #: JAON-04PRHD989**

**Date:  
Apr 29, 2015**

**Qualification of MMT assembly site for selected products in  
40L PDIP package using gold (Au) bond wire.**

Distribution

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**Purpose:** \_\_\_\_\_ Qualification of MMT assembly site for selected products in 40L PDIP package using gold (Au) bond wire.

**MP code:** \_\_\_\_\_ A7AU24S2XAXC

**Part No.:** \_\_\_\_\_ PIC18C452-E/P

**BD No:** \_\_\_\_\_ BDM-000758 rev. A (Engineering BD)

**CCB No.:** \_\_\_\_\_ 1619

**Package:**

**Type** \_\_\_\_\_ 40L PDIP

**Width or Size** \_\_\_\_\_ 600"

**Die thickness:** \_\_\_\_\_ 15 mils

**Die size:** \_\_\_\_\_ 168.0 x 273.7 mils

**Lead frame:**

**Paddle size:** \_\_\_\_\_ 300 x 300 mils

**Material** \_\_\_\_\_ CDA194

**Surface** \_\_\_\_\_ Ag spot

**Process** \_\_\_\_\_ Etched

**Lead Lock** \_\_\_\_\_ Yes

**Part Number** \_\_\_\_\_ 10104009

**Treatment** \_\_\_\_\_ None

**Wire:**

**Material** \_\_\_\_\_ Au

**Die Attach Epoxy:**

**Part Number** \_\_\_\_\_ CRM-1064L

**Conductive** \_\_\_\_\_ Yes

**Mold Compound:** \_\_\_\_\_ GE-800

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	30 bonds from a minimum of 5 devices.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp. (1 lot to be tested at 125°C)	45	5	1	50	0	10	Must be in progress at time of package release to production, but completion is not required for release to production.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp. (1 lot to be tested at 125°C)	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Unbiased HAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress. (1 lot to be tested at 125°C)	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.