

Product Change Notification - JAON-04PRHD989

Date: 22 Jun 2015

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

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

Notification text:

PCN Status:

Final notification

Microchip Parts Affected:

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

P_{CN}_JAON-04PRHD989_Affected_CPN.xls

P_{CN}_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 22, 2015 (date code: 1526)

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.

June 22, 2015: Issued final notification. Attached the qualification report. Revised the estimated first ship date from June 15, 2015 to June 22, 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-04PRHD989_Qual_Report.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
DSPIC30F3014-20I/P
DSPIC30F3014-30I/P
DSPIC30F4011-20E/P
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DSPIC30F4013-20E/P
DSPIC30F4013-20I/P
DSPIC30F4013-30I/P
PIC16C64A-04/P
PIC16C64A-04I/P
PIC16C64A-04I/P053
PIC16C64A-10/P
PIC16C64A-20/P
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PIC16C67-20/P
PIC16C67-20I/P
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PIC16C74A-10I/P
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TC7106CPL
TC7106IPL
TC7107ACPL
TC7107AIPL
TC7107CPL
TC7107IPL
TC7109ACPL
TC7109ACPL514
TC7109CPL
TC7116ACPL
TC7116CPL
TC7117ACPL
TC7117CPL
TC7126ACPL
TC7126CPL
TC7126IPL
TC7129CPL

TC850CPL



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: JAON-04PRHD989

**Date:
June 18, 2015**

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

Distribution

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MICROCHIP **PACKAGE QUALIFICATION REPORT**

Purpose	Qualification of MMT assembly site for selected products in 40L PDIP package using gold (Au) bond wire.
CN	BC151157
QUAL ID	Q15063
MP CODE	A7AU24S2XAXC
Part No.	PIC18C452-E/P
Bonding No.	BDM-000758 Rev. A (Engineering BD)
CCB No.	1619

Package

Type	40L PDIP
Package size	600 mils
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

Die attach material

Epoxy	CRM-1064L
Wire	Au wire
Mold Compound	GE800
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-160700895.000	TMPE215487293.120	15204MM
MMT-160700896.000	TMPE215487293.130	15204MQ
MMT-160700897.000	TMPE215487293.110	15204MR

Result

Pass Fail _____

40L PDIP (.600") assembled by MMT (ALPH) pass reliability test per QCI-39000.

Prepared By: Thinnapol Date: June 18, 2015 (Sr.Reliability Engineer)

(Mr.Thinnapol Nakkasun)

Approved By: Som Date: June 18, 2015 (Reliability Manager)

(Mr. Somnuek Thongprasert)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Electrical Test	Electrical Test: +125°C System :J750	JESD22-A113	693(0)	693		Good Devices
Temp Cycle	Stress Condition: -65°C to +150°C, 250 Cycles System : TABAI ESPEC TSA-70H	JESD22-A104		231		
	Electrical Test: + 125°C System : J750		231(0)	0/231	Pass	77 units / lot
	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H			231		
	Electrical Test: + 125°C System : J750		231(0)	0/231	Pass	
	Bond Strength: Wire Pull (>3.0 grams) Bond Shear (>30.00 grams)		15 (0)	0/15	Pass	
			15 (0)	0/15	Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22-A118		231		
	Electrical Test: +25°C System: J750		231(0)	0/231	Pass	77 units / lot
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X	JESD22-A110		231		
	Electrical Test: +25°C and 125°C System: J750		231(0)	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	JESD22-A103		45		45 units
	Electrical Test : +25°C and 125°C System: J750		45(0)	0/45	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Bond Strength Data Assembly	Wire Pull (> 3.0 grams)	M2011	30 (0) Wires	0/30	Pass	
	Bond Shear (>30.00 grams)	JESD22- B116	30 (0) bonds	0/30	Pass	