

Product Change Notification - JAON-08QUPF367

Date: 29 Jun 2015

Product Category: Memory; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers

Notification subject: CCB 1641.01 Initial Notice: Qualification of new lead frame design (dimple) in selected products available in 8L DFN (2x3x0.9 mm) package using Gold (Au) bond wire at NSEB assembly site.

Notification text: **PCN Status:**
Initial notification

Microchip Parts Affected:
Please open the attachments found in the attachments field below labeled as PCN_#_Affected_CPN.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:
Qualification of new lead frame design (dimple) in selected products available in 8L DFN (2x3x0.9 mm) package using Gold (Au) bond wire at NSEB assembly site.

Pre Change:
Lead frame design (U-groove)

Post Change:
New lead frame design (dimple)

Impacts to Data Sheet:

None

Reason for Change:

To improve manufacturability and qualify new lead frame design (dimple).

Change Implementation Status:

In Progress

Estimated First Ship Date:

August 20, 2015 (date code: 1534)

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:

June 29, 2015: Issued initial notification.

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-08QUPF367_Qual_Plan.pdf](#) [PCN_JAON-08QUPF367_Affected_CPN.pdf](#)
[PCN_JAON-08QUPF367_Affected_CPN.xls](#)

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

Terms and Conditions:

If you wish to change your product/process change notification (PCN) profile please log on to our website at <http://www.microchip.com/PCN> sign into myMICROCHIP to open the myMICROCHIP home page, then select a profile option from the left navigation bar.

To opt out of future offer or information emails (other than product change notification emails), click here to go to [microchipDIRECT](#) and login, then click on the "My account" link, click on "Update profile" and un-check the box that states "Future offers or information about Microchip's products or services."

PCN_JAON-08QUPF367
CATALOG_PART_NBR
11LC161T-E/MC
24AA00T-I/MC
24AA014-I/MC
24AA014T-I/MC
24AA01T-I/MC
24AA024-I/MC
24AA024T-I/MC
24AA025-I/MC
24AA025T-I/MC
24AA02T-I/MC
24AA04-I/MC
24AA04T-E/MC
24AA04T-I/MC
24AA08-I/MC
24AA08T-I/MC
24AA16-I/MC
24AA16T-I/MC
24AA32AT-I/MC
24AA32AT-I/MCB27
24AA52-I/MC
24AA52T-I/MC
24AA64T-I/MC
24C00T-I/MC
24C01C-E/MC
24C01C-I/MC
24C01CT-E/MC
24C01CT-I/MC
24C02C-E/MC
24C02CT-E/MC
24C02CT-I/MC
24FC64-I/MC
24FC64T-I/MC
24LC00T-I/MC
24LC014-E/MC
24LC014-I/MC
24LC014T-E/MC
24LC014T-I/MC
24LC01B-E/MC
24LC01BT-E/MC
24LC01BT-I/MC
24LC024-E/MC
24LC024-I/MC
24LC024T-E/MC
24LC024T-I/MC
24LC025-E/MC

24LC025-I/MC
24LC025T-E/MC
24LC025T-I/MC
24LC02BT-E/MC
24LC02BT-I/MC
24LC04B-E/MC
24LC04B-I/MC
24LC04BT-E/MC
24LC04BT-I/MC
24LC08B-E/MC
24LC08B-I/MC
24LC08BT-E/MC
24LC08BT-I/MC
24LC16B-E/MC
24LC16B-I/MC
24LC16BT-E/MC
24LC16BT-I/MC
24LC32AT-E/MC
24LC32AT-I/MC
24LC32AT-I/MCA28
24LC64T-I/MC
24LCS52-I/MC
24LCS52T-I/MC
25AA010AT-I/MC
25AA020AT-I/MC
25AA040AT-I/MC
25LC010AT-E/MC
25LC010AT-I/MC
25LC020AT-E/MC
25LC020AT-I/MC
25LC040AT-E/MC
25LC040AT-I/MC
93AA46AT-I/MC
93AA46BT-I/MC
93AA46CT-I/MC
93AA56AT-I/MC
93AA56BT-I/MC
93AA56CT-I/MC
93AA66AT-I/MC
93AA66BT-I/MC
93AA66CT-I/MC
93AA76CT-I/MC
93AA86CT-I/MC
93C46AT-I/MC
93C46BT-I/MC
93C46CT-I/MC
93C56AT-I/MC

93C56BT-I/MC
93C56CT-I/MC
93C66AT-I/MC
93C66BT-I/MC
93C66CT-I/MC
93C76CT-I/MC
93C86CT-I/MC
93LC46AT-I/MC
93LC46BT-I/MC
93LC46CT-I/MC
93LC56AT-I/MC
93LC56BT-I/MC
93LC56CT-E/MC
93LC56CT-I/MC
93LC66AT-I/MC
93LC66BT-I/MC
93LC66CT-I/MC
93LC76CT-I/MC
93LC86CT-I/MC
MCP1603-120I/MC
MCP1603-150I/MC
MCP1603-180I/MC
MCP1603-250I/MC
MCP1603-330I/MC
MCP1603-ADJI/MC
MCP1603T-120I/MC
MCP1603T-150I/MC
MCP1603T-180I/MC
MCP1603T-250I/MC
MCP1603T-330I/MC
MCP1603T-ADJI/MC
MCP1623-I/MC
MCP1623T-I/MC
MCP1624-I/MC
MCP1624-I/MCAAA
MCP1624T-I/MC
MCP1624T-I/MCAAA
MCP1630-E/MC
MCP1630T-E/MC
MCP1630V-E/MC
MCP1630VT-E/MC
MCP1632-AAE/MC
MCP1632-BAE/MC
MCP1632T-AAE/MC
MCP1632T-BAE/MC
MCP1640B-I/MC
MCP1640BT-I/MC

MCP1640C-I/MC
MCP1640CT-I/MC
MCP1640D-I/MC
MCP1640DT-I/MC
MCP1640-I/MC
MCP1640T-I/MC
MCP1642B-18I/MC
MCP1642B-30I/MC
MCP1642B-33I/MC
MCP1642B-50I/MC
MCP1642B-ADJI/MC
MCP1642BT-18I/MC
MCP1642BT-30I/MC
MCP1642BT-33I/MC
MCP1642BT-50I/MC
MCP1642BT-ADJI/MC
MCP1642D-18I/MC
MCP1642D-30I/MC
MCP1642D-33I/MC
MCP1642D-50I/MC
MCP1642D-ADJI/MC
MCP1642DT-18I/MC
MCP1642DT-30I/MC
MCP1642DT-33I/MC
MCP1642DT-50I/MC
MCP1642DT-ADJI/MC
MCP1643-I/MC
MCP1643T-I/MC
MCP1703A-1202E/MC
MCP1703A-1502E/MC
MCP1703A-1802E/MC
MCP1703A-2502E/MC
MCP1703A-2802E/MC
MCP1703A-3002E/MC
MCP1703A-3302E/MC
MCP1703A-4002E/MC
MCP1703A-5002E/MC
MCP1703AT-1202E/MC
MCP1703AT-1502E/MC
MCP1703AT-1802E/MC
MCP1703AT-1852E/MC
MCP1703AT-2502E/MC
MCP1703AT-2802E/MC
MCP1703AT-3002E/MC
MCP1703AT-3302E/MC
MCP1703AT-4002E/MC
MCP1703AT-5002E/MC

MCP1703T-1202E/MC
MCP1703T-1802E/MC
MCP1703T-2502E/MC
MCP1703T-3002E/MC
MCP1703T-3302E/MC
MCP1703T-4002E/MC
MCP1703T-5002E/MC
MCP1725-0802E/MC
MCP1725-1202E/MC
MCP1725-1802E/MC
MCP1725-2502E/MC
MCP1725-3002E/MC
MCP1725-3302E/MC
MCP1725-5002E/MC
MCP1725-ADJE/MC
MCP1725T-0802E/MC
MCP1725T-1202E/MC
MCP1725T-1802E/MC
MCP1725T-2502E/MC
MCP1725T-3002E/MC
MCP1725T-3302E/MC
MCP1725T-5002E/MC
MCP1725T-ADJE/MC
MCP1754-1802E/MC
MCP1754-3302E/MC
MCP1754-5002E/MC
MCP1754S-1802E/MC
MCP1754S-3302E/MC
MCP1754S-5002E/MC
MCP1754ST-1802E/MC
MCP1754ST-3302E/MC
MCP1754ST-5002E/MC
MCP1754T-1802E/MC
MCP1754T-3302E/MC
MCP1754T-5002E/MC
MCP1755-1802E/MC
MCP1755-3302E/MC
MCP1755-5002E/MC
MCP1755S-1802E/MC
MCP1755S-3302E/MC
MCP1755S-5002E/MC
MCP1755ST-1802E/MC
MCP1755ST-3302E/MC
MCP1755ST-5002E/MC
MCP1755T-1802E/MC
MCP1755T-3302E/MC
MCP1755T-5002E/MC

MCP3422A0-E/MC
MCP3422A0T-E/MC
MCP3422A1-E/MC
MCP3422A1T-E/MC
MCP3422A2-E/MC
MCP3422A2T-E/MC
MCP3422A3-E/MC
MCP3422A3T-E/MC
MCP3422A4-E/MC
MCP3422A4T-E/MC
MCP3422A5-E/MC
MCP3422A5T-E/MC
MCP3422A6-E/MC
MCP3422A6T-E/MC
MCP3422A7-E/MC
MCP3422A7T-E/MC
MCP3426A0-E/MC
MCP3426A0T-E/MC
MCP3426A1-E/MC
MCP3426A1T-E/MC
MCP3426A2-E/MC
MCP3426A2T-E/MC
MCP3426A3-E/MC
MCP3426A3T-E/MC
MCP3426A4-E/MC
MCP3426A4T-E/MC
MCP3426A5-E/MC
MCP3426A5T-E/MC
MCP3426A6-E/MC
MCP3426A6T-E/MC
MCP3426A7-E/MC
MCP3426A7T-E/MC
MCP4011T-103E/MC
MCP4011T-202E/MC
MCP4011T-502E/MC
MCP4011T-503E/MC
MCP4021T-103E/MC
MCP4021T-202E/MC
MCP4021T-502E/MC
MCP4021T-503E/MC
MCP4801-E/MC
MCP4801T-E/MC
MCP4811-E/MC
MCP4811T-E/MC
MCP4821-E/MC
MCP4821T-E/MC
MCP4901-E/MC

MCP4901T-E/MC
MCP4911-E/MC
MCP4911T-E/MC
MCP4921-E/MC
MCP4921T-E/MC
MCP6002-E/MC
MCP6002T-E/MC
MCP6031-E/MC
MCP6031T-E/MC
MCP6033-E/MC
MCP6033T-E/MC
MCP6231-E/MC
MCP6231T-E/MC
MCP6241-E/MC
MCP6241T-E/MC
MCP73831-2ACI/MC
MCP73831-2ATI/MC
MCP73831-2DCI/MC
MCP73831-3ACI/MC
MCP73831-4ADI/MC
MCP73831-5ACI/MC
MCP73831T-2ACI/MC
MCP73831T-2ATI/MC
MCP73831T-2DCI/MC
MCP73831T-3ACI/MC
MCP73831T-4ADI/MC
MCP73831T-5ACI/MC
MCP73832-2ACI/MC
MCP73832-2ATI/MC
MCP73832-2DCI/MC
MCP73832-3ACI/MC
MCP73832-4ADI/MC
MCP73832-5ACI/MC
MCP73832T-2ACI/MC
MCP73832T-2ATI/MC
MCP73832T-2DCI/MC
MCP73832T-3ACI/MC
MCP73832T-4ADI/MC
MCP73832T-5ACI/MC
MCP9804-E/MC
MCP9804-E/MCBBB
MCP9804T-E/MC
MCP9804T-E/MCBBB
MCP9805-BE/MC
MCP9805T-BE/MC
MCP9808T-E/MC
MCP98242-BE/MC

MCP98242-BE/MCBA2
MCP98242-CE/MC
MCP98242T-BE/MC
MCP98242T-BE/MCBA2
MCP98242T-BE/MCBA3
MCP98242T-BE/MCBAA
MCP98242T-BE/MCBAB
MCP98242T-BE/MCBAC
MCP98242T-CE/MC
MCP98243-BE/MC
MCP98243T-BE/MC
MCP98243T-BE/MCAA
MCP98243T-BE/MCAB
MCP9843-BE/MC
MCP9843T-BE/MC
PIC10F200-E/MC
PIC10F200-I/MC
PIC10F200T-E/MC
PIC10F200T-I/MC
PIC10F202-E/MC
PIC10F202-I/MC
PIC10F202T-E/MC
PIC10F202T-I/MC
PIC10F202T-I/MC071
PIC10F202T-I/MC083
PIC10F204-E/MC
PIC10F204-I/MC
PIC10F204T-E/MC
PIC10F204T-I/MC
PIC10F206-E/MC
PIC10F206-I/MC
PIC10F206T-E/MC
PIC10F206T-I/MC
PIC10F220-E/MC
PIC10F220-I/MC
PIC10F220T-E/MC
PIC10F220T-I/MC
PIC10F222-E/MC
PIC10F222-I/MC
PIC10F222T-E/MC
PIC10F222T-I/MC
PIC10F222T-I/MC051
PIC10F320-E/MC
PIC10F320-I/MC
PIC10F320T-E/MC
PIC10F320T-I/MC
PIC10F322-E/MC

PIC10F322-I/MC
PIC10F322T-I/MC
PIC10LF320-E/MC
PIC10LF320-I/MC
PIC10LF320T-I/MC
PIC10LF322-E/MC
PIC10LF322-I/MC
PIC10LF322T-I/MC
PIC12F1501-E/MC
PIC12F1501-I/MC
PIC12F1501-I/MC029
PIC12F1501T-E/MC
PIC12F1501T-I/MC
PIC12F1501T-I/MC020
PIC12F1501T-I/MC023
PIC12F1501T-I/MC025
PIC12F1501T-I/MC029
PIC12F1501T-I/MC030
PIC12F508-E/MC
PIC12F508-I/MC
PIC12F508-I/MC075
PIC12F508T-I/MC
PIC12F508T-I/MC075
PIC12F509-E/MC
PIC12F509-I/MC
PIC12F509T-I/MC
PIC12F510-E/MC
PIC12F510-I/MC
PIC12F510T-E/MC
PIC12F510T-I/MC
PIC12F519-E/MC
PIC12F519-I/MC
PIC12F519T-E/MC
PIC12F519T-I/MC
PIC12F519T-I/MC034
PIC12F519T-I/MC045
PIC12F529-I/MC
PIC12LF1501-E/MC
PIC12LF1501-I/MC
PIC12LF1501-I/MC020
PIC12LF1501T-E/MC
PIC12LF1501T-I/MC
PIC12LF1501T-I/MC020
PIC12LF1501T-I/MC021



QUALIFICATION PLAN

PCN #: JAON-08QUPF367

**Date:
Jun 3, 2015**

Qualification of new lead frame design (dimple) in selected products available in 8L DFN (2x3x0.9 mm) package using Gold (Au) bond wire at NSEB assembly site.

Distribution

Surasit P.
Mitchell R.
Wichai K.
Chalermpon P.

G. Perzanowski.
F.Chen
O. Baltazar

Microchip Technology (Thailand) Co., Ltd.
14 Moo 1 T. Wangtakien A. Muangchacherngsao,
Chacherngsao, Thailand, 24000
Tel. (6638) 857119-45, 857311-19 ext. 1231
Fax (6638) 857149-50

Purpose: _____ Qualification of new lead frame design (dimple) in selected products available in 8L DFN (2x3x0.9 mm) package using Gold (Au) bond wire at NSEB assembly site.

MP code: _____ DE059

Part No.: _____ PIC12F519

BD No: _____ BDM-000826 rev.A

CCB No.: _____ 1641.01

Package:

Type _____ 8L DFN

Width or Size _____ 2 x 3 x 0.9mm

Die thickness: _____ 8 mils

Die size: _____ 30.6 x 38.8 mils

Lead frame:

Paddle size: _____ 75 x 67mils

Material _____ EFTEC-64T

Surface _____ Ag ring plate

Process _____ Etched

Lead Lock _____ Yes

Part Number _____ FR1010

Treatment _____ UTL's proprietary roughening

Wire:

Material _____ Au

Die Attach Epoxy:

Part Number _____ 8600

Conductive _____ Yes

Mold Compound: _____ G700LTD

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.
Wire Sweep								Required for any reduction in wire bond thickness.
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 125C)	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.
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020D for package type; Electrical test pre and post stress at +25°C. MSL-1 @ 260°C (1 lot to be tested at 125C)	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
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 125C)	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 125C)	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.