

## Product Change Notification - CYER-09HJXI365

**Date:** 23 Aug 2013

**Product Category:** Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers; Analog (Thermal, Power Management & Safety); 16-bit Microcontrollers and Digital Signal Controllers; Touch Sensing Technologies; RF and Security

**Notification subject:** CCB 1155.05 Initial Notification: Qualification of selected products available in the 28L SPDIP, 8L PDIP, and 18L PDIP packages with palladium coated copper (PdCu) bond wire at MTAI assembly site.

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

**Microchip Parts Affected:**

See attachments of affected catalog part numbers (CPN) labeled as...  
PCN\_CYER-09HJXI365\_Affected\_CPN.xls  
PCN\_CYER-09HJXI365\_Affected\_CPN.pdf

**Description of Change:**

Qualification of selected products available in the 28L SPDIP, 8L PDIP, and 18L PDIP packages with palladium coated copper (PdCu) bond wire at MTAI assembly site.

NOTE: Selected products are non-automotive standalone analog and PIC MCU devices. Please review the affected CPN lists (attached) to identify the actual parts affected.

**Pre Change:**

Gold (Au) wire

**Post Change:**

Palladium coated copper (PdCu) bond wire

**Impacts to Data Sheet:**

None

**Reason for Change:**

To improve manufacturability

**Change Implementation Status:**

In progress

**Estimated First Ship Dates:**

October 18, 2013 (Date code: 1342)

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 23, 2013: Initial notification issue date.

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\\_CYER-09HJXI365\\_Affected CPN.pdf](#)  
[PCN\\_CYER-09HJXI365\\_Qual Plan.pdf](#)  
[PCN\\_CYER-09HJXI365\\_Affected CPN.xlsx](#)

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**MICROCHIP**

## **QUALIFICATION PLAN**

**PCN #: CYER-09HJXI365**

**Date:  
Jun 19, 2013**

**Qualification of selected products available in the 28L SPDIP package with palladium coated copper (PdCu) bond wire at MTAI assembly site. The 8L PDIP and 18L PDIP packages will qualify by similarity at MTAI assembly site.**

**Distribution**

**Surasit P.  
Wanphen L.  
Wichai K.  
Chalermpon P.**

**Rangsun K.  
A. Navarro  
R. Sharma**

Fax (6638) 857149-50

**Purpose:** \_\_\_\_\_ Qualification of selected products available in the 28L SPDIP package with palladium coated copper (PdCu) bond wire at MTAI assembly site. The 8L PDIP and 18L PDIP packages will qualify by similarity at MTAI assembly site.

**MP code:** \_\_\_\_\_ A5AF14M3XE04

**Part No.:** \_\_\_\_\_ PIC16F876

**BD No:** \_\_\_\_\_ BDM-000349 rev.A

**CCT No:** \_\_\_\_\_ 1155.09

**Package:**

**Type** \_\_\_\_\_ 28L SPDIP

**Width or Size** \_\_\_\_\_ 300 mil

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

**Die size:** \_\_\_\_\_ 179.2 x 199.6 mils

**Lead frame:**

**Paddle size:** \_\_\_\_\_ 196 x 300

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

**Surface** \_\_\_\_\_ Ag plate

**Process** \_\_\_\_\_ Stamp

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

**Part Number** \_\_\_\_\_ 10102812

**Wire:**

**Material** \_\_\_\_\_ PdCu

**Die Attach Epoxy:**

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

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

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

**Lead finish** \_\_\_\_\_ Matte tin

**Reliability Test plan:** \_\_\_\_\_ See attached, STD Package Reliability Test plan on each package.

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.
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.	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. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable)
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable)
Unbiased HAST	+130°C/85% RH for 96 hrs or	77	5	3	246	0	10	
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 follow ing Temp Cycle stress.	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable).

PCN_CYER-09HJX1365
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DSPIC30F2010-20E/SP
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DSPIC30F2020-30I/SP
DSPIC30F3010-20E/SP
DSPIC30F3010-20I/SP
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HCS101/P
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HCS201/P
HCS201-I/P
HCS365/P
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HCS500/P
HCS500-I/P
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MCP2122-E/P
MCP3001-I/P

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TC2185-5.0VPA
CF745-04/P
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HS12-100D0/12DS2F
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