

# Product Change Notification - CYER-27BVXY633

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**Date:** 17 Dec 2013

**Notification subject:** CCB 1155.03 Final Notification: Qualification of selected products available in the 28L SOIC package with palladium coated copper (PdCu) wire at MTAI assembly site.

**Notification text:** **PCN Status:**  
Final notification

**Microchip Parts Affected:**

See attachments of affected catalog part numbers (CPN) labeled as...  
PCN\_CYER-27BVXY633\_Affected\_CPN.xls  
PCN\_CYER-27BVXY633\_Affected\_CPN.pdf

**Description of Change:**

Qualification of selected products available in the 28L SOIC package with palladium coated copper (PdCu) wire at MTAI assembly site.

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

**Pre Change:**

Gold (Au) wire

**Post Change:**

Palladium coated copper (PdCu) wire

**Impacts to Data Sheet:**

None

**Reason for Change:**

To improve manufacturability

**Change Implementation Status:**

Complete

**Estimated First Ship Dates:**

Remaining Devices: November 15, 2013 (Date code: 1346)  
TC514 Device Families: January 17, 2014 (Date code: 1403)

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 29, 2013: Final notification issue date.  
December 17, 2013: Revised PCN to include TC514 device families. Revised the affected parts list to include TC514 device families and included the estimated first ship date. Revised the estimated first ship date for TC514 device families only to 1/17/2014.

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-27BVXY633\\_Affected CPN.pdf](#)  
[PCN\\_CYER-27BVXY633\\_Qual Report.pdf](#)  
[PCN\\_CYER-27BVXY633\\_Affected CPN.xlsx](#)

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PCN_CYER-27BVXY633	
CATALOG_PART_NBR	Estimated First Ship Date
AP7675/SO	11/15/2013
CF775-04/SO	11/15/2013
DSPIC30F1010-20E/SO	11/15/2013
DSPIC30F1010-30I/SO	11/15/2013
DSPIC30F2010-20E/SO	11/15/2013
DSPIC30F2010-20E/SO044	11/15/2013
DSPIC30F2010-20I/SO	11/15/2013
DSPIC30F2010-30I/SO	11/15/2013
DSPIC30F2010-30I/SOC01	11/15/2013
DSPIC30F2010T-20E/SO	11/15/2013
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PIC24HJ12GP202T-I/SO	11/15/2013
PIC24HJ32GP202-E/SO	11/15/2013
PIC24HJ32GP202-H/SO	11/15/2013
PIC24HJ32GP202-I/SO	11/15/2013
PIC24HJ32GP202T-E/SO	11/15/2013
PIC24HJ32GP202T-H/SO	11/15/2013
PIC24HJ32GP202T-I/SO	11/15/2013
PIC24HJ32GP302-E/SO	11/15/2013
PIC24HJ32GP302-I/SO	11/15/2013
PIC24HJ32GP302T-E/SO	11/15/2013
PIC24HJ32GP302T-I/SO	11/15/2013
PIC24HJ64GP202-E/SO	11/15/2013
PIC24HJ64GP202-I/SO	11/15/2013
PIC24HJ64GP202T-E/SO	11/15/2013
PIC24HJ64GP202T-I/SO	11/15/2013
PIC24HJ64GP502-E/SO	11/15/2013
PIC24HJ64GP502-H/SO	11/15/2013
PIC24HJ64GP502-I/SO	11/15/2013
PIC24HJ64GP502-I/SOA21	11/15/2013
PIC24HJ64GP502T-E/SO	11/15/2013
PIC24HJ64GP502T-H/SO	11/15/2013
PIC24HJ64GP502T-I/SO	11/15/2013
PIC24HJ64GP502T-I/SOA21	11/15/2013
TC514COI	1/17/2014
TC514COI713	1/17/2014
TC514EOI	1/17/2014
TC514EOI713	1/17/2014



**MICROCHIP**

**QUALIFICATION REPORT  
RELIABILITY LABORATORY**

**PCN #: CYER-27BVXY633**

Date  
August 02, 2013

Qualification of selected products available in the 28L SOIC package with palladium coated copper (PdCu) wire at MTAI assembly site.

Distribution

Somnuek T.  
Wanphen L.  
Wichai K.  
Payungsak W.

Rangsun K.  
A. Navarro  
J. Fernandez  
S. Kelsall  
S. Melby



## MICROCHIP PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of selected products available in the 28L SOIC package with palladium coated copper (PdCu) wire at MTAI assembly site.
<b>CN</b>	BC130515
<b>QUAL ID</b>	Q13042
<b>MP CODE</b>	A5AF14N3XE04
<b>Part No.</b>	PIC16F876-04E/SO
<b>Bonding No.</b>	A-024651 Rev. J
<b>CCB No.</b>	1155.03
<b><u>Package</u></b>	
<b>Type</b>	28L SOIC
<b>Package size</b>	300 mils
<b>Die thickness</b>	15 mils
<b>Die size</b>	179.20 x 199.60 mils
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	200 x 240 mils
<b>Material</b>	CDA194
<b>Surface</b>	Brown Oxide Treatment
<b>Process</b>	Stamp
<b>Lead Lock</b>	No
<b>Part Number</b>	10102801
<b><u>Die attach material</u></b>	
<b>Epoxy</b>	3280
<b>Wire</b>	PdCu wire
<b>Mold Compound</b>	G600
<b>Plating Composition</b>	Matte Tin



# MICROCHIP PACKAGE QUALIFICATION REPORT

## Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTAI140102331	TMPE213384971.300	13145QE
MTAI140102332	TMPE213384971.200	13145QG
MTAI140102333	TMPE213384971.100	13145QH

### Result

Pass  Fail  \_\_\_\_\_

28L SOIC assembled by MTAI 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. Additionally, all units pass extended read points per attachment.

Prepared By: *Thinnapol* Date: August 02, 2013 (Reliability Engineer)

(Mr. Thinnapol Nakkasun)

Approved By: *Som* Date: August 02, 2013 (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 J-STD-020D	135	0/135	Pass	

<b><u>Precondition</u></b> <b><u>Prior Perform</u></b> <b><u>Reliability Tests</u></b> <b>(At MSL Level 1)</b>	<b>Electrical Test</b> :+25°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 125°C System: J750			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, 50, 250, 500 Cycles System : TABAI ESPEC TSA-70H <b>Electrical Test:</b> + 125°C System: J750	JESD22- A104	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C  77 units / lot
	<b>Stress Condition:</b> (Extended) -65°C to +150°C, 1000, 1500, 2000 Cycles System : TABAI ESPEC TSA-70H <b>Electrical Test:</b> + 125°C System: J750		231(0)	0/231	Pass	
<b>UNBIASED-HAST</b>	<b>Stress Condition:</b> (Standard) +130°C/85%RH, 96 hrs. System: HAST 6000X <b>Electrical Test:</b> + 25°C System: J750	JESD22- A118	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C  77 units / lot
	<b>Stress Condition:</b> (Extended) +130°C/85%RH, 192, 288, 384 hrs. System: HAST 6000X <b>Electrical Test:</b> + 25°C System: J750		231(0)	0/231	Pass	
<b>HAST</b>	<b>Stress Condition:</b> (Standard) +130°C/85%RH, 96 hrs. <b>Bias Volt:</b> 5.5 Volts System: HAST 6000X <b>Electrical Test:</b> +25°C and 125°C System: J750	JESD22- A110	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C  77 units / lot
	<b>Stress Condition:</b> (Extended) +130°C/85%RH, 192, 288, 384 hrs. <b>Bias Volt:</b> 5.5 Volts System: HAST 6000X <b>Electrical Test:</b> +25°C and 125°C System: J750		231(0)	0/231	Pass	



## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		45 units
	<b>Electrical Test:</b> :+25°C System: J750		45(0)	0/45	Pass	
<b>Bond Strength Data Assembly</b>	Wire Pull (> 2.5 grams)	JESD22- B116	30 (0) Wires	0/30	Pass	
	Bond Shear (15.00 grams)		30 (0) bonds	0/30	Pass	