

Product Change Notification - CYER-27BVXY633

Date: 06 Feb 2014

Product Category: 8-bit Microcontrollers

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)

PIC16C55 & PIC16C57 Device Families: February 28, 2014 (Date code: 1409)

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.

February 6, 2014: Revised PCN to include PIC16C55 and PIC16C57 device families. Revised the affected parts list to include PIC16C55 and PIC16C57 device families and included the estimated first ship date. Revised the estimated first ship date for PIC16C55 and PIC16C57 device families only to 2/28/2014. 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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DSPIC30F2012-20E/SO	11/15/2013
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ENC28J60T-I/SO	11/15/2013
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HA3099/SO	11/15/2013
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HSA2-040SIA/A2S20ATR	11/15/2013
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PIC24HJ12GP202-E/SO	11/15/2013
PIC24HJ12GP202-I/SO	11/15/2013
PIC24HJ12GP202T-E/SO	11/15/2013
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
PIC16C55-10/SO	2/28/2014
PIC16C55-10I/SO	2/28/2014
PIC16C55-HS/SO	2/28/2014
PIC16C55-HSI/SO	2/28/2014
PIC16C55-LP/SO	2/28/2014
PIC16C55-LPI/SO	2/28/2014
PIC16C55-RC/SO	2/28/2014
PIC16C55-RCI/SO	2/28/2014

PIC16C55T-HS/SO	2/28/2014
PIC16C55T-XT/SO	2/28/2014
PIC16C55-XT/SO	2/28/2014
PIC16C55-XTI/SO	2/28/2014
PIC16C57-10/SO	2/28/2014
PIC16C57-10I/SO	2/28/2014
PIC16C57-HS/SO	2/28/2014
PIC16C57-HSI/SO	2/28/2014
PIC16C57-LP/SO	2/28/2014
PIC16C57-LPE/SO	2/28/2014
PIC16C57-LPI/SO	2/28/2014
PIC16C57-RC/SO	2/28/2014
PIC16C57-RCI/SO	2/28/2014
PIC16C57T-HS/SO	2/28/2014
PIC16C57T-HSI/SO	2/28/2014
PIC16C57T-LPI/SO	2/28/2014
PIC16C57T-LPI/SO235	2/28/2014
PIC16C57T-RC/SO	2/28/2014
PIC16C57T-XTI/SO	2/28/2014
PIC16C57-XT/SO	2/28/2014
PIC16C57-XTE/SO	2/28/2014
PIC16C57-XTI/SO	2/28/2014



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

Purpose	Qualification of selected products available in the 28L SOIC package with palladium coated copper (PdCu) wire at MTAI assembly site.
CN	BC130515
QUAL ID	Q13042
MP CODE	A5AF14N3XE04
Part No.	PIC16F876-04E/SO
Bonding No.	A-024651 Rev. J
CCB No.	1155.03
<u>Package</u>	
Type	28L SOIC
Package size	300 mils
Die thickness	15 mils
Die size	179.20 x 199.60 mils
<u>Lead Frame</u>	
Paddle size	200 x 240 mils
Material	CDA194
Surface	Brown Oxide Treatment
Process	Stamp
Lead Lock	No
Part Number	10102801
<u>Die attach material</u>	
Epoxy	3280
Wire	PdCu wire
Mold Compound	G600
Plating Composition	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
Moisture/Reflow Sensitivity Classification Test (At MSL Level 1)	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	

<u>Precondition</u> <u>Prior Perform</u> <u>Reliability Tests</u> (At MSL Level 1)	Electrical Test :+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		
	Electrical Test :+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
Temp Cycle	Stress Condition: (Standard) -65°C to +150°C, 50, 250, 500 Cycles System : TABAI ESPEC TSA-70H Electrical Test: + 125°C System: J750	JESD22-A104	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot
	Stress Condition: (Extended) -65°C to +150°C, 1000, 1500, 2000 Cycles System : TABAI ESPEC TSA-70H Electrical Test: + 125°C System: J750		231(0)	0/231	Pass	
UNBIASED-HAST	Stress Condition: (Standard) +130°C/85%RH, 96 hrs. System: HAST 6000X Electrical Test: + 25°C System: J750	JESD22-A118	231(0)	0/231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot
	Stress Condition: (Extended) +130°C/85%RH, 192, 288, 384 hrs. System: HAST 6000X Electrical Test: + 25°C System: J750		231(0)	0/231	Pass	
HAST	Stress Condition: (Standard) +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X Electrical Test: +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
	Stress Condition: (Extended) +130°C/85%RH, 192, 288, 384 hrs. Bias Volt: 5.5 Volts System: HAST 6000X Electrical Test: +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
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		45 units
	Electrical Test: :+25°C System: J750		45(0)	0/45	Pass	
Bond Strength Data Assembly	Wire Pull (> 2.5 grams)	JESD22- B116	30 (0) Wires	0/30	Pass	
	Bond Shear (15.00 grams)		30 (0) bonds	0/30	Pass	