

Product Change Notification - CYER-27BVXY633

Date: 29 Aug 2013

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

November 15, 2013 (Date code: 1346)

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.

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](#)

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

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PCN_CYER-27BVXY633
CATALOG_PART_NBR
AP7675/SO
CF775-04/SO
DSPIC30F1010-20E/SO
DSPIC30F1010-30I/SO
DSPIC30F2010-20E/SO
DSPIC30F2010-20E/SO044
DSPIC30F2010-20I/SO
DSPIC30F2010-30I/SO
DSPIC30F2010-30I/SOC01
DSPIC30F2010T-20E/SO
DSPIC30F2010T-30I/SO
DSPIC30F2010T-30I/SO037
DSPIC30F2010T-30I/SO038
DSPIC30F2012-20E/SO
DSPIC30F2012-20I/SO
DSPIC30F2012-30I/SO
DSPIC30F2012T-30I/SO
DSPIC30F2020-20E/SO
DSPIC30F2020-30E/SOB34
DSPIC30F2020-30I/SO
DSPIC30F2020T-20E/SO
DSPIC30F2020T-30E/SOB34
DSPIC30F2020T-30I/SO
DSPIC30F3010-20E/SO
DSPIC30F3010-20I/SO
DSPIC30F3010-30I/SO
DSPIC30F3010T-20I/SO
DSPIC30F3010T-30I/SO
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DSPIC33FJ16GS402-50I/SO
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DSPIC33FJ32GP302T-I/SO
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DSPIC33FJ32MC102T-E/SO
DSPIC33FJ32MC102T-I/SO
DSPIC33FJ32MC202-E/SO
DSPIC33FJ32MC202-H/SO
DSPIC33FJ32MC202-I/SO
DSPIC33FJ32MC202-I/SO022
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DSPIC33FJ64MC802T-H/SO
DSPIC33FJ64MC802T-I/SO
ENC28J60-I/SO
ENC28J60-I/SOC02
ENC28J60-I/SOC04
ENC28J60T/SOC01
ENC28J60T-I/SO
ESE0009SIF/E0E42
ESE0009SIF/E0E58
ESE0009SIF/E0E5A
HA0124-I/SO
HA3089-I/SO
HA3099/SO
HCC2-009SIJ/C2C49TR
HCC2-009SIJ/C2C59
HCC2-009SIJ/C2C59TR
HCC2-009SIJ/C2C5D
HCC2-009SIJ/C2C5DTR
HCC2-009SIJ/C2C5E
HCC2-009SIJ/C2C5ETR

HCD0-00ESIJ/D0C4A
HCD2-00ESIJ/D2C53
HCD2-00ESIJ/D2C53TR
HCD2-00ESIJ/D2C5B
HCD2-00ESIJ/D2C5BTR
HCD2-00ESIJ/D2C5C
HCD2-00ESIJ/D2C5CTR
HCD2-00ESIJ/D2C60
HCD2-00ESIJ/D2C60TR
HSA0-040SDA/A0SA10
HSA0-040SDA/A0SA10TR
HSA0-040SIA/A0S1F
HSA0-040SIA/A0S1FTR
HSA0-040SIA/A0SS10
HSA0-040SIA/A0SS10TR
HSA0100SD/A0SA0B
HSA0100SI/A0SS0B
HSA0100SI/A0SS0BTR
HSA0100SI/ER1718
HSA0100SI/ER2013
HSA2-040SAA/A2320A
HSA2-040SAA/A2320ATR
HSA2-040SCA/A2320A
HSA2-040SDA/A2S20A
HSA2-040SIA/A2S20
HSA2-040SIA/A2S20A
HSA2-040SIA/A2S20ATR
HSA2-040SIA/A2S23
HSA2-040SIA/A2S23TR
HSA2-0C0SDA/A2S21
HSA2-0C0SIA/A2S20A
HSA2-0C0SIA/A2S23
HSA2-240SIA/A2S1FA
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HSC2-009SIJ/C2S51
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MCP23016-I/SO
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MCP23018T-E/SO
MCP23S17-E/SO
MCP23S17T-E/SO
MCP23S18-E/SO
MCP23S18T-E/SO
MCV28A-I/SO

MTR9657-I/SO
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PIC16C57CT-04/SO059
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PIC16C76T-04/SO
PIC16C773/SO
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PIC16C773T-I/SO
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PIC16F57-E/SO
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PIC16F57T-E/SO
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PIC16F870T-I/SO
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PIC16F872T-I/SO
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PIC16F913T-I/SO
PIC16F913T-I/SO028
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PIC16LC76-04I/SO
PIC16LC773/SO
PIC16LC773-I/SO
PIC16LF72-I/SO
PIC16LF72-I/SO067
PIC16LF72-I/SO083
PIC16LF72-I/SOG
PIC16LF72T-I/SO
PIC16LF72T-I/SOG
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PIC16LF876-04/SO
PIC16LF876-04I/SO
PIC16LF876A-I/SO
PIC16LF876AT-I/SO
PIC16LF876AT-I/SOG
PIC16LF876T-04/SO
PIC16LF876T-04I/SO
PIC18C242-I/SO
PIC18C252-I/SO
PIC18C252T-I/SO
PIC18F2220-E/SO
PIC18F2220-I/SO
PIC18F2220-I/SOC03
PIC18F2220-I/SOV02
PIC18F2220T-I/SO
PIC18F2220T-I/SOV02
PIC18F2221-E/SO
PIC18F2221-I/SO
PIC18F2221T-E/SO
PIC18F2221T-I/SO
PIC18F2320-E/SO
PIC18F2320-I/SO
PIC18F2320-I/SOC07
PIC18F2320-I/SOV02
PIC18F2320T-I/SO
PIC18F2320T-I/SOC2
PIC18F2320T-I/SOV02
PIC18F2321-E/SO
PIC18F2321-I/SO
PIC18F2321T-I/SO
PIC18F2331-E/SO
PIC18F2331-I/SO
PIC18F2410-E/SO
PIC18F2410-I/SO
PIC18F2410T-I/SO
PIC18F2420-E/SO
PIC18F2420-E/SO020
PIC18F2420-I/SO
PIC18F2420-I/SO024
PIC18F2420-I/SOC01
PIC18F2420T-E/SO

PIC18F2420T-E/SO020
PIC18F2420T-I/SO
PIC18F2423-E/SO
PIC18F2423-I/SO
PIC18F2423T-I/SO
PIC18F242-E/SO
PIC18F242-I/SO
PIC18F242T-I/SO
PIC18F2431-E/SO
PIC18F2431-I/SO
PIC18F2431T-I/SO
PIC18F2450-I/SO
PIC18F2450T-I/SO
PIC18F2455-I/SO
PIC18F2455-I/SOHXX
PIC18F2455T-I/SO
PIC18F2458-I/SO
PIC18F2458T-I/SO
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PIC18F2480-I/SO
PIC18F2480-I/SO020
PIC18F2480T-I/SO
PIC18F248-E/SO
PIC18F248-I/SO
PIC18F248T-I/SO
PIC18F24J10-I/SO
PIC18F24J10T-I/SO
PIC18F24J11-I/SO
PIC18F24J11T-I/SO
PIC18F24J50-I/SO
PIC18F24J50T-I/SO
PIC18F2510-E/SO
PIC18F2510-I/SO
PIC18F2510T-I/SO
PIC18F2515-I/SO
PIC18F2520-E/SO
PIC18F2520-E/SO032
PIC18F2520-I/SO
PIC18F2520-I/SOC01
PIC18F2520T-E/SO
PIC18F2520T-E/SO032
PIC18F2520T-E/SO043
PIC18F2520T-E/SOC06
PIC18F2520T-I/SO
PIC18F2520T-I/SOC01
PIC18F2520T-I/SOC11
PIC18F2523-E/SO

PIC18F2523-I/SO
PIC18F2523T-I/SO
PIC18F2525-E/SO
PIC18F2525-I/SO
PIC18F2525T-E/SO
PIC18F2525T-I/SO
PIC18F2525T-I/SO024
PIC18F2525T-I/SO025
PIC18F2525T-I/SOC02
PIC18F252-E/SO
PIC18F252-I/SO
PIC18F252T-I/SO
PIC18F2539-I/SO
PIC18F2550-I/SO
PIC18F2550-I/SO023
PIC18F2550T-I/SO
PIC18F2550T-I/SO023
PIC18F2550T-I/SO027
PIC18F2553-I/SO
PIC18F2553-I/SOHXX
PIC18F2553T-I/SO
PIC18F2580-E/SO
PIC18F2580-I/SO
PIC18F2580T-I/SO
PIC18F2585-E/SO
PIC18F2585-H/SO
PIC18F2585-I/SO
PIC18F2585T-I/SO
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PIC18F258-I/SO
PIC18F258T-I/SO
PIC18F25J10-I/SO
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PIC18F25J11-I/SO
PIC18F25J11T-I/SO
PIC18F25J50-I/SO
PIC18F25J50T-I/SO
PIC18F2610-I/SO
PIC18F2620-E/SO
PIC18F2620-I/SO
PIC18F2620-I/SOB4
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PIC18F2680-H/SO
PIC18F2680-I/SO
PIC18F2680T-I/SO
PIC18F2682-E/SO

PIC18F2682-I/SO
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PIC18F2685-I/SO
PIC18F2685T-I/SO
PIC18F26J11-I/SO
PIC18F26J11T-I/SO
PIC18F26J13-I/SO
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PIC18F26J50-I/SO
PIC18F26J50T-I/SO
PIC18F26J53-I/SO
PIC18F26J53T-I/SO
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PIC18F27J53T-I/SO
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PIC18LC252-I/SO
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PIC18LF2320-I/SOG
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PIC18LF2420T-E/SOC03
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PIC18LF24J10-I/SO
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PIC18LF258T-I/SO
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PIC18LF26J11T-I/SO
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PIC24FJ16MC102T-I/SO
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PIC24FJ32GA002T-I/SO
PIC24FJ32GA002T-I/SO025
PIC24FJ32GA102-E/SO
PIC24FJ32GA102-I/SO
PIC24FJ32GA102T-I/SO
PIC24FJ32GB002-I/SO
PIC24FJ32GB002T-I/SO
PIC24FJ32GB002T-I/SO020
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PIC24FJ32MC102T-I/SO
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PIC24FJ48GA002T-I/SO
PIC24FJ64GA002-E/SO
PIC24FJ64GA002-I/SO
PIC24FJ64GA002T-I/SO
PIC24FJ64GA102-E/SO
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PIC24HJ128GP202T-I/SO
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PIC24HJ12GP202T-E/SO
PIC24HJ12GP202T-I/SO
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PIC24HJ32GP202T-E/SO
PIC24HJ32GP202T-H/SO
PIC24HJ32GP202T-I/SO
PIC24HJ32GP302-E/SO
PIC24HJ32GP302-I/SO
PIC24HJ32GP302T-E/SO
PIC24HJ32GP302T-I/SO
PIC24HJ64GP202-E/SO
PIC24HJ64GP202-I/SO
PIC24HJ64GP202T-E/SO
PIC24HJ64GP202T-I/SO
PIC24HJ64GP502-E/SO
PIC24HJ64GP502-H/SO
PIC24HJ64GP502-I/SO
PIC24HJ64GP502-I/SOA21
PIC24HJ64GP502T-E/SO
PIC24HJ64GP502T-H/SO
PIC24HJ64GP502T-I/SO
PIC24HJ64GP502T-I/SOA21



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	

Precondition Prior Perform Reliability Tests (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	