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Product Change Notification - CYER-05WHBT820

Date:	08 Nov 2010
Product Category:	Memory; 16-bit Microcontrollers and Digital Signal Controllers; Analog (Linear & Mixed Signal) AND Interface; RF and Security; Touch Sensing Technologies; Analog (Thermal, Power Management & Safety); Radio Frequency Devices; 8-bit Microcontrollers; All 16-bit Microcontrollers
Device Family:	
Notification subject:	CCB 998.02: Qualification of CRM-1064L die attach in 28L SPDIP (.300) & 8/18L PDIP (.300) packages at the MTAI assembly site
Notification text:	<p>PCN Status: Initial notification</p> <p>Microchip Part#s Affected: See attachments of affected catalog part numbers (CPN) labeled as... PCN_CYER-05WHBT820_Affected_CPN.xls PCN_CYER-05WHBT820_Affected_CPN.pdf</p> <p>Description of Change: Qualification of CRM-1064L die attach in 28L SPDIP (.300) & 8/18L PDIP (.300) packages at the MTAI assembly site.</p> <p>Impacts to Data Sheet: None</p> <p>Reason for Change: To Improve on-time delivery performance</p> <p>Change Implementation Status: In Progress</p> <p>Estimated First Ship Date: January 30, 2011 (Date code 1106)</p> <p>Markings to Distinguish: Traceability code</p>
Attachment(s):	PCN_CYER-05WHBT820_Affected_CPN.pdf PCN_CYER-05WHBT820_Affected_CPN.xls PCN_CYER-05WHBT820_Qual Plan.pdf

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Parts Affected

11AA010
11AA020
11AA040
11AA080
11AA160
11LC010
11LC020
11LC040
11LC080
11LC160
23A256
23A640
23K256
23K640
24AA00
24AA01
24AA014
24AA014H
24AA01H
24AA02
24AA024
24AA024H
24AA025
24AA02H
24AA04
24AA04H
24AA08
24AA08H
24AA128
24AA16
24AA16H
24AA256
24AA32A
24AA32AF
24AA512
24AA515
24AA52
24AA64
24AA64F
24AA65
24C00
24C01C
24C02C

24C65
24FC128
24FC256
24FC512
24FC515
24FC64
24LC00
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24LC014H
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24LC21A
24LC22A
24LC256
24LC32A
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24LC512
24LC515
24LC64
24LC64F
24LC65
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24LCS22A
24LCS52
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24VL024H
24VL025
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25AA040

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25AA080
25AA080A
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93AA56C-I/P
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93C46B-I/P
93C46B-I/PRVA
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DSPIC33FJ64GP802-E/SP
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ENC28J60-I/SP
GEN321-I/P004
HA1126/SP
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HA2283-I/P
HA3078-I/SP
HA3089-I/SP
HA3099/SP
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HCS201/P032
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HCS360-I/P036

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HCS512/P
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HS12-100D0/12DS2F
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MCP2004-E/P
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MCP2021-500E/P
MCP2122-E/P
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MCP2515-I/PRB4

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MCV18E-I/P
MCV28A-I/SP
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TC624VPA
TC642BEPA
TC642CPA
TC642VPA
TC646BEPA
TC646VPA
TC647BEPA
TC647VPA
TC648BEPA
TC648VPA
TC649BEPA
TC649VPA
TC682CPA
TC682EPA
TC7650CPA
TC7652CPA
TC7660CPA
TC7660EPA
TC7660HCPA
TC7660HEPA
TC7660SCPA
TC7660SEPA
TC7662ACPA
TC7662AEPA

TC7662BCPA
TC7662BEPA
TC913ACPA
TC913AIPA
TC913BCPA
TC962CPA
TC962EPA



MICROCHIP

QUALIFICATION PLAN

RELIABILITY LABORATORY

PCN#: CYER-05WHBT820

Date:
October 28, 2010

Qualification of CRM-1064L die attach in 28L SPDIP (.300) package at the MTAI assembly site. The 8/18L PDIP (.300) packages will qualify by similarity

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Purpose _____ Qualification of CRM-1064L die attach in 28L SPDIP
(.300) package at the MTAI assembly site. The
8/18L PDIP (.300) packages will qualify by similarity

MP Code _____ A5AF11M3XC04

Part No. _____ PIC16F876

CCB No. _____ 998.02

Package Type _____ 28L SPDIP 300"

Die Thickness _____ 15 mils

Lead frame _____ A194

Die Size _____ 179.2 x 199.6 mils

Paddle Size _____ 196 x 300 mils

Surface _____ Ag spot

Process _____ Stamped

Lead Lock _____ No

Die Attach Epoxy _____ Sumitomo CRM-1064L

Wire _____ Au

Compound _____ GE-800

Plating composition _____ Matte Sn

Test Name	Conditions	Reliability Stress Read Point -40°C to +85°C datasheet operating range (Temp)	Pre & Post Reliability Stress Test Temperature (°C) -40°C to +85°C datasheet operating range (Temp)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Duration (Days)	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011			5	0	1	5	0 fails after TC	5	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001			5	0	1	5	0	5	30 bonds from a min. 5 devices.
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	500 hrs	+25 +85	45	5	1	50	0	10	Spares should be properly identified.
HAST	+130°C/85% RH for 96 hours. 1 lot to be tested at 85 and 125C	96 hrs	+25 +85	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Autoclave	+121°C/15 psig for 96 hours.	96 hrs	+25	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

Test Name	Conditions	Reliability Stress Read Point	Pre & Post Reliability Stress Test Temperature (°C)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Duration (Days)	Special Instructions
Temp Cycle	-65°C to +150°C. 3 gram force WBP on 5 devices from 1 lot, test following Temp Cycle stress. 1 lot to be tested at 85 and 125C	500 cycles	+85 operating range (l Temp) -40°C to +85°C datasheet	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.