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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 S Technologies; Analog (Thermal, Power Management & Safety); Radio Frequency Devices; 8-bit Microcontrollers; All 16-bit Microcontrol

Device Family: 

Notification subject: CCB 998.02: Qualification of CRM-1064L die attach in 28L SPDIP (.300) & 8/18L PDIP (.300) packages at the MTA assembly site

Notification text:

PCN Status:
Initial notification

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

Description of Change:
Qualification of CRM-1064L die attach in 28L SPDIP (.300) & 8/18L PDIP (.300) packages at the MTA site.

Impacts to Data Sheet:
None

Reason for Change:
To Improve on-time delivery performance

Change Implementation Status:
In Progress

Estimated First Ship Date:
January 30, 2011 (Date code 1106)

Markings to Distinguish:
Traceability code

Attachment(s): [PCN_CYER-05WHBT820_Affected_CPN.pdf](#)
[PCN_CYER-05WHBT820_Affected_CPN.xls](#)
[PCN_CYER-05WHBT820_Qual Plan.pdf](#)

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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

Distribution

Surasit P.
Wanphen L.
J. Fernandez
Chalermpon P.
CCB Chandler

Rangsun K.
A. Navarro
R.Sharma
DCC. Thailand

Microchip Technology (Thailand) Co., Ltd.
14 Moo 1 T. Wangtakien A. Muangchacherngsao,
Chacherngsao, Thailand,24000
Tel. (6638) 857119-45 , 857311-19 ext. 1231
Fax (6638) 857149-50

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 (I Temp)	Pre & Post Reliability Stress Test Temperature (°C) -40°C to +85°C datasheet operating range (I 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 -40°C to +85°C datasheet operating range (l Temp)	Pre & Post Reliability Stress Test Temperature (°C) -40°C to +85°C datasheet operating range (l 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
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	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

PCN#: CYER-05WHBT820
CATALOG_PART_NBR
11AA010-I/P
11AA020-I/P
11AA040-I/P
11AA080-I/P
11AA160-I/P
11LC010-I/P
11LC020-I/P
11LC040-I/P
11LC080-I/P
11LC160-I/P
23A256-I/P
23A640-I/P
23K256-E/P
23K256-I/P
23K640-E/P
23K640-I/P
24AA00/P
24AA00-I/P
24AA014H-I/P
24AA014-I/P
24AA01H-I/P
24AA01-I/P
24AA02/P
24AA024H-I/P
24AA024-I/P
24AA025-I/P
24AA02H-I/P
24AA02-I/P
24AA04/P
24AA04H-I/P
24AA04-I/P
24AA08/P
24AA08H-I/P
24AA08-I/P
24AA128-I/P
24AA16/P
24AA16H-I/P
24AA16-I/P
24AA256-I/P
24AA32AF-I/P
24AA32A-I/P
24AA512-I/P
24AA515-I/P
24AA52-I/P
24AA64/P
24AA64/PRVA
24AA64F-I/P
24AA64-I/P
24AA65/P
24C00/P

24C00-E/P
24C00-I/P
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24FC512-I/P
24FC515-I/P
24FC64-I/P
24LC00/P
24LC00-I/P
24LC00-I/PVAO
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24LC014H-I/P
24LC014-I/P
24LC01B/P
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24LCS21A/P
24LCS21A-I/P
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25AA160C-I/P
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93AA76C-I/P
93AA86C-I/P
93C46A-I/P
93C46B/P
93C46B/P15KVAO
93C46B-E/P
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93C76C-E/P
93C76C-I/P
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HA2283-I/P
HA3078-I/SP
HA3089-I/SP
HA3099/SP
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HCS360-I/P036

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HCS512/P
HCS512-I/P
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HS12-100D0/12DS2F
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MCP1404-E/P
MCP1405-E/P
MCP1406-E/P
MCP1407-E/P
MCP14E3-E/P
MCP14E4-E/P
MCP14E5-E/P
MCP1525-I/P
MCP2003-E/P
MCP2004-E/P
MCP2021-330E/P
MCP2021-500E/P
MCP2122-E/P
MCP2140A-I/P
MCP2140-I/P
MCP2140-I/PRVB
MCP2150-I/P
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MCP3002-I/P
MCP3201-BI/P
MCP3201-CI/P
MCP3202-BI/P
MCP3202-CI/P
MCP3221A5/P
MCP3221A5-I/P
MCP3301-BI/P
MCP3301-CI/P
MCP4011-103E/P
MCP4011-202E/P
MCP4011-502E/P
MCP4011-503E/P
MCP41010-E/P
MCP41010-I/P
MCP41050-E/P
MCP41050-I/P
MCP41100-E/P
MCP41100-I/P
MCP4131-103E/P
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MCP4811-E/P
MCP4812-E/P
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MCP4822-E/P
MCP4901-E/P
MCP4911-E/P
MCP4921-E/P
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MCP601-E/P
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MCP601-I/PRVP
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MCP6031-E/PAAA
MCP6032-E/P
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MCP603-I/PBAA
MCP603-I/PRVP
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MCP606-I/P
MCP607-I/P
MCP608-I/P
MCP6141-E/P
MCP6141-I/P
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MCP6142-I/P
MCP6143-E/P
MCP6143-I/P
MCP616-I/P
MCP617-I/P
MCP618-I/P

MCP6231-E/P
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MCP6291-E/P
MCP6292-E/P
MCP6293-E/P
MCP6295-E/P
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MCP6546-E/P
MCP6546-I/P
MCP6547-E/P
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MCP6548-E/P
MCP6548-I/P
MCP6S21-I/P
MCP6S22-I/P
MCP6S91-E/P
MCP6S92-E/P
MCP722C-I/SPV03
MCRF202-I/PXXX
MCRF450/P
MCRF452/P
MCV08A-I/P
MCV18A-I/P
MCV18E-I/P
MCV28A-I/SP
PIC10F200-E/P
PIC10F200-I/P
PIC10F202-E/P
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PIC10F202-I/P057
PIC10F202-I/P074
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PIC12C508-04I/P
PIC12C508A-04/P
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PIC12C508A-04I/P020
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