




Product Change Notification - CYER-05WHBT820

Date: 26 Jan 2011

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:
February 28, 2011 (Date code 1110)

NOTE: Please be advised that after the estimated first ship date customers may receive pre or post parts depending on existing inventory of the pre changed parts.

Markings to Distinguish:
Traceability code

PCN CYER-05WHBT820 Document Revision History:
November 8, 2010: Initial notification issued. Estimated first ship date January 30, 2010.
January 27, 2011: Final notification issued. Added qualification report and adjusted estimated first sh

Attachment(s): [PCN_CYER-05WHBT820_Affected_CPN.pdf](#)
[PCN_CYER-05WHBT820_Affected_CPN.xls](#)
[PCN_CYER-05WHBT820_Qual_Report.pdf](#)

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MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN#: CYER-05WHBT820

Date
January 06, 2011

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.
Wichai K.
Surapol S.

Rangsun K.
C.K. Barlingay
R. Sharma

Microchip Technology (Thailand) Co., Ltd.
14 Moo 1 T.Wangtakien A. Muangchacherngsao,
Chacherngsao, Thailand, 24000
Tel. (+66 38) 857119-45, 857311-19 ext. 1231
Fax (+66 38) 857149-50



MICROCHIP PACKAGE QUALIFICATION REPORT

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
CN	BC103001
QUAL ID	Q10131
Part No.	PIC16F876-01/SP
MP CODE	A5AF11M3XC04
Bonding No.	A-040961 Rev. A
CCB No.	998.02
<u>Package</u>	
Type	28L SPDIP
Package size	300 mils
Die thickness	15 mils
Die size	179.20 x 199.60 mils
<u>Lead Frame</u>	
Paddle size	196 x 300 mils
Material	CDA194
Surface	Ag
Process	Stamped
Lead Lock	Yes
Part Number	10102812
<u>Die attach material</u>	
Epoxy	CRM-1064L
Wire	Au wire
Mold Compound	GE800
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MTA1113501117	TMPE211237786.A00	1048QBU
MTA1113501118	TMPE211237786.900	1048QBV
MTA1113501119	TMPE211237786.800	1048QBW

Result Pass Fail _____

28L SPDIP assembled by MTAI pass reliability test per QCI-39000.

Prepared By: _____) **Date:** January 06, 2011 **(Reliability Engineer)**

(Mr.Udom Suksansakul)

Approved By: _____) **Date:** January 06, 2011 **(Reliability Manager)**

(Mr.Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Electrical Test	Electrical Test: +25°C and 85°C System: J750 (Test 1 lot 125°C on MTAI113501117.000)	S12/14/16 (PDC)	693(0)	11/30/10	12/03/10	693		Good Devices
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		12/07/10	12/19/10	231		
	Electrical Test: + 85°C System: J750 (Test 1 lot 125°C on MTAI113501117.000)	S12/14/16 (PDC)	30(0)	12/19/10	12/19/10	0/30		
	Bond Strength: Bond Shear (12.40 grams)	QCI-33003	30(0)	12/19/10	12/19/10	0/30		
	Wire Pull (> 3 grams)	QCI-91022	15 (0)	12/28/10	12/29/10	0/15	Pass	
			15 (0)	12/29/10	12/29/10	0/15	Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-91261B		12/11/10	12/15/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: J750	S12/14/16 (PDC)	231(0)	12/15/10	12/17/10	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		12/17/10	12/21/10	231		
	Electrical Test: +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA113501117.000)	S12/14/16 (PDC)	231(0)	12/21/10	12/28/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 150°C, 504 hrs System: CHINEE	PI-92014B		12/07/10	12/30/10	45		45 units
	Electrical Test: +25°C and 85°C System: J750	S12/14/16 (PDC)	45(0)	12/30/10	01/03/11	0/45	Pass	
<u>Bond Strength</u> Data Assembly	Bond Shear (12.40 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)		30 (0) wires	-	-	0/30	Pass	
	Die shear (>2.5 kgf.)	QCI-91021	30 (0) die	-	-	0/30	Pass	

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
24C01C/P
24C01C-E/P
24C01C-I/P
24C01C-I/P12KVAO
24C02C/P
24C02C-E/P
24C02C-I/P
24C02C-I/PNR
24C65/P
24C65-I/P
24FC128-I/P
24FC256-I/P
24FC512-I/P
24FC515-I/P
24FC64-I/P
24LC00/P
24LC00-I/P
24LC00-I/PVAO
24LC014H-E/P
24LC014H-I/P
24LC014-I/P
24LC01B/P
24LC01B-E/P
24LC01BH-E/P
24LC01BH-I/P
24LC01B-I/P
24LC024/P
24LC024-E/P
24LC024H-E/P
24LC024H-I/P
24LC024-I/P
24LC025/P
24LC025-E/P
24LC025-I/P
24LC02B/P
24LC02B-E/P
24LC02BH-E/P
24LC02BH-I/P
24LC02B-I/P
24LC02B-I/PNR
24LC04B/P
24LC04B-E/P
24LC04BH-E/P
24LC04BH-I/P
24LC04B-I/P
24LC04B-I/PNR
24LC08B/P
24LC08B-E/P
24LC08BH-E/P
24LC08BH-I/P

24LC08B-I/P
24LC08B-I/PNR
24LC128-E/P
24LC128-I/P
24LC16B/P
24LC16B-E/P
24LC16BH-E/P
24LC16BH-I/P
24LC16B-I/P
24LC16B-I/PNR
24LC21/P
24LC21A/P
24LC21A-I/P
24LC21-I/P
24LC22A-I/P
24LC256-E/P
24LC256-I/P
24LC256-I/P15KVAO
24LC256-I/PRVE
24LC32A/P
24LC32A-E/P
24LC32AF-E/P
24LC32AF-I/P
24LC32A-I/P
24LC512-E/P
24LC512-I/P
24LC515-I/P
24LC64-E/P
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24LCS21A/P
24LCS21A-I/P
24LCS22A-I/P
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25AA320A-I/P
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25AA512-I/P
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25AA640-I/P
25C040/P
25C040-E/P
25C040-I/P
25C080/P
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25C320/P
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25LC010A-I/P
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25LC020A-I/P
25LC040/P
25LC040A-E/P
25LC040A-I/P
25LC040-I/P
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25LC080D-E/P
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25LC080-I/P
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34VL02/P
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93AA46B-I/P
93AA46C-I/P
93AA56/P
93AA56A-I/P
93AA56B-I/P
93AA56C-I/P
93AA66/P
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93AA66B-I/P
93AA66C-I/P
93AA66-I/P
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93AA76C-I/P
93AA86C-I/P
93C46A-I/P
93C46B/P
93C46B/P15KVAO
93C46B-E/P
93C46B-I/P
93C46B-I/PRVA
93C46C-E/P
93C46C-I/P
93C56A-E/P
93C56A-I/P
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93C56C-E/P

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93C66A-E/P
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93C66B-E/P
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93C66C-E/P
93C66C-I/P
93C66-E/P
93C76C-E/P
93C76C-I/P
93C76-E/P
93C86C-E/P
93C86C-I/P
93C86-E/P
93LC46/P
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93LC86-I/P
CF745-04/P
CF775-04/SP
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DSPIC30F1010-30I/SP
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DSPIC33FJ32MC302-I/SP
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DSPIC33FJ64MC202-E/SP
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DSPIC33FJ64MC802-E/SP
DSPIC33FJ64MC802-I/SP
ENC28J60/SP
ENC28J60-I/SP
GEN321-I/P004
HA1126/SP
HA2099/P
HA2283-I/P
HA3078-I/SP
HA3089-I/SP
HA3099/SP
HCS101/P
HCS101-I/P
HCS200/P
HCS200-I/P
HCS200-I/PGVAO
HCS201/P
HCS201/P030
HCS201/P032
HCS201-I/P
HCS300/P
HCS300-I/P
HCS301/P
HCS301-I/P
HCS320/P
HCS320-I/P
HCS360/P
HCS360-I/P
HCS360-I/P036

HCS361/P
HCS361-I/P
HCS362-I/P
HCS365/P
HCS365-I/P
HCS410/P
HCS410-I/P
HCS500/P
HCS500-I/P
HCS512/P
HCS512-I/P
HS12-100D0/12DS15
HS12-100D0/12DS2F
MCP1403-E/P
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
MCP2150-I/PRVB
MCP2150-I/PRVC
MCP2155-I/P
MCP2155-I/PRVB
MCP2155-I/PRVC
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MCP23009-E/P
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MCP23S08-E/P
MCP23S09-E/P
MCP23S17-E/SP
MCP23S18-E/SP
MCP2510-E/P
MCP2510-I/P
MCP2515-E/P
MCP2515-E/PRB2
MCP2515-E/PRB4
MCP2515-I/P
MCP2515-I/PRB2
MCP2515-I/PRB4

MCP2551-E/P
MCP2551-I/P
MCP3001-I/P
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
MCP4131-104E/P
MCP4131-502E/P
MCP4131-503E/P
MCP4132-103E/P
MCP4132-104E/P
MCP4132-502E/P
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MCP4162-103E/P
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MCP4811-E/P
MCP4812-E/P
MCP4821-E/P
MCP4822-E/P
MCP4901-E/P
MCP4911-E/P
MCP4921-E/P
MCP6002-E/P
MCP6002-I/P
MCP601-E/P
MCP601-I/P
MCP601-I/PRVP
MCP6021-E/P
MCP6021-I/P
MCP6022-E/P
MCP6022-I/P
MCP6023-E/P
MCP6023-I/P
MCP602-E/P
MCP602-I/P
MCP6031-E/P
MCP6031-E/PAAA
MCP6032-E/P
MCP6032-E/PAAA
MCP603-E/P
MCP603-I/P
MCP603-I/PBAA
MCP603-I/PRVP
MCP6041-E/P
MCP6041-I/P
MCP6041-I/PAAA
MCP6042-E/P
MCP6042-I/P
MCP6042-I/PAAA
MCP6043-E/P
MCP6043-I/P
MCP606-I/P
MCP607-I/P
MCP608-I/P
MCP6141-E/P
MCP6141-I/P
MCP6142-E/P
MCP6142-I/P
MCP6143-E/P
MCP6143-I/P
MCP616-I/P
MCP617-I/P
MCP618-I/P

MCP6231-E/P
MCP6232-E/P
MCP6241-E/P
MCP6242-E/P
MCP6271-E/P
MCP6272-E/P
MCP6273-E/P
MCP6275-E/P
MCP6281-E/P
MCP6282-E/P
MCP6283-E/P
MCP6285-E/P
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MCP6293-E/P
MCP6295-E/P
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MCP6S92-E/P
MCP722C-I/SPV03
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MCRF452/P
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MCV18A-I/P
MCV18E-I/P
MCV28A-I/SP
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