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Date: 26 Jan 2011

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: 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 MTAI assembly 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 change 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 ship.

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

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Product Change Notification - CYER-05WHBT820 [\(Printer Friendly\)](#)

| 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 |

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|------------------|
| 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 |

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| 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 |
| 24LC64F-E/P |
| 24LC64F-I/P |
| 24LC64-I/P |
| 24LC65/P |
| 24LC65-I/P |
| 24LCS21A/P |
| 24LCS21A-I/P |
| 24LCS22A-I/P |
| 24LCS52-I/P |
| 24VL014/P |
| 24VL014H/P |
| 24VL024/P |
| 24VL024H/P |
| 24VL025/P |
| 25AA010A-I/P |
| 25AA020A-I/P |
| 25AA040/P |
| 25AA040A-I/P |
| 25AA040-I/P |
| 25AA080/P |
| 25AA080A-I/P |
| 25AA080B-I/P |
| 25AA080C-I/P |
| 25AA080D-I/P |

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| 25AA080-I/P |
| 25AA1024-I/P |
| 25AA128-I/P |
| 25AA160/P |
| 25AA160A-I/P |
| 25AA160B-I/P |
| 25AA160C-I/P |
| 25AA160D-I/P |
| 25AA160-I/P |
| 25AA256-I/P |
| 25AA320A-I/P |
| 25AA320-I/P |
| 25AA512-I/P |
| 25AA640A-I/P |
| 25AA640-I/P |
| 25C040/P |
| 25C040-E/P |
| 25C040-I/P |
| 25C080/P |
| 25C080-I/P |
| 25C160/P |
| 25C160-E/P |
| 25C160-I/P |
| 25C320/P |
| 25C320-I/P |
| 25LC010A-E/P |
| 25LC010A-I/P |
| 25LC020A-E/P |
| 25LC020A-I/P |
| 25LC040/P |
| 25LC040A-E/P |
| 25LC040A-I/P |
| 25LC040-I/P |
| 25LC080/P |
| 25LC080A-E/P |
| 25LC080A-I/P |
| 25LC080B-E/P |
| 25LC080B-I/P |
| 25LC080C-E/P |
| 25LC080C-I/P |
| 25LC080D-E/P |
| 25LC080D-I/P |
| 25LC080-I/P |
| 25LC1024-E/P |
| 25LC1024-I/P |
| 25LC128-E/P |
| 25LC128-I/P |
| 25LC160/P |
| 25LC160A-E/P |
| 25LC160A-I/P |
| 25LC160B-E/P |
| 25LC160B-I/P |

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| 25LC160C-I/P |
| 25LC160D-E/P |
| 25LC160D-I/P |
| 25LC160-I/P |
| 25LC256-E/P |
| 25LC256-I/P |
| 25LC320/P |
| 25LC320A-E/P |
| 25LC320A-I/P |
| 25LC320-E/P |
| 25LC320-I/P |
| 25LC512-E/P |
| 25LC512-I/P |
| 25LC640A-E/P |
| 25LC640A-I/P |
| 25LC640-E/P |
| 25LC640-I/P |
| 34AA02-E/P |
| 34AA02-I/P |
| 34LC02-E/P |
| 34LC02-I/P |
| 34VL02/P |
| 93AA46/P |
| 93AA46A-I/P |
| 93AA46B-I/P |
| 93AA46C-I/P |
| 93AA56/P |
| 93AA56A-I/P |
| 93AA56B-I/P |
| 93AA56C-I/P |
| 93AA66/P |
| 93AA66A-I/P |
| 93AA66B-I/P |
| 93AA66C-I/P |
| 93AA66-I/P |
| 93AA76/P |
| 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 |
| 93C56B-E/P |
| 93C56B-I/P |
| 93C56C-E/P |

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|--------------------|
| 93C56C-I/P |
| 93C56-E/P |
| 93C66A-E/P |
| 93C66A-I/P |
| 93C66B-E/P |
| 93C66B-I/P |
| 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 |
| 93LC46A/P |
| 93LC46A-E/P |
| 93LC46A-I/P |
| 93LC46A-I/PA22 |
| 93LC46A-I/PG15KV01 |
| 93LC46B/P |
| 93LC46B/PRVA |
| 93LC46B-E/P |
| 93LC46B-I/P |
| 93LC46B-I/P15KVAO |
| 93LC46B-I/PD2VAO |
| 93LC46B-I/PG15KV01 |
| 93LC46B-I/PRVA |
| 93LC46C-E/P |
| 93LC46C-I/P |
| 93LC46-I/P |
| 93LC56/P |
| 93LC56A/P |
| 93LC56A-E/P |
| 93LC56A-I/P |
| 93LC56A-I/P15KVAO |
| 93LC56B/P |
| 93LC56B/PRVA |
| 93LC56B-E/P |
| 93LC56B-I/P |
| 93LC56C-E/P |
| 93LC56C-I/P |
| 93LC56-I/P |
| 93LC66/P |
| 93LC66A/P |
| 93LC66A-I/P |
| 93LC66A-I/PE31 |
| 93LC66B/P |
| 93LC66B-E/P |
| 93LC66B-I/P |
| 93LC66C-E/P |

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| 93LC66C-I/PG15KV06 |
| 93LC66-I/P |
| 93LC66-I/PB27 |
| 93LC76/P |
| 93LC76C-I/P |
| 93LC76-I/P |
| 93LC86/P |
| 93LC86C-E/P |
| 93LC86C-I/P |
| 93LC86-I/P |
| CF745-04/P |
| CF775-04/SP |
| DSPIC30F1010-20E/SP |
| DSPIC30F1010-30I/SP |
| DSPIC30F2010-20E/SP |
| DSPIC30F2010-20I/SP |
| DSPIC30F2010-30I/SP |
| DSPIC30F2010-30I/SPG |
| DSPIC30F2011-20E/P |
| DSPIC30F2011-20I/P |
| DSPIC30F2011-30I/P |
| DSPIC30F2012-20E/SP |
| DSPIC30F2012-20I/SP |
| DSPIC30F2012-30I/SP |
| DSPIC30F2020-20E/SP |
| DSPIC30F2020-30I/SP |
| DSPIC30F3010-20E/SP |
| DSPIC30F3010-20I/SP |
| DSPIC30F3010-30I/SP |
| DSPIC30F3012-20E/P |
| DSPIC30F3012-20I/P |
| DSPIC30F3012-30I/P |
| DSPIC30F3013-20E/SP |
| DSPIC30F3013-20I/SP |
| DSPIC30F3013-30I/SP |
| DSPIC30F4012-20E/SP |
| DSPIC30F4012-20I/SP |
| DSPIC30F4012-30I/SP |
| DSPIC33FJ06GS102-E/SP |
| DSPIC33FJ06GS102-I/SP |
| DSPIC33FJ06GS202-E/SP |
| DSPIC33FJ06GS202-I/SP |
| DSPIC33FJ128GP202-E/SP |
| DSPIC33FJ128GP202-I/SP |
| DSPIC33FJ128GP802-E/SP |
| DSPIC33FJ128GP802-I/SP |
| DSPIC33FJ128MC202-E/SP |
| DSPIC33FJ128MC202-I/SP |
| DSPIC33FJ128MC802-E/SP |
| DSPIC33FJ128MC802-I/SP |
| DSPIC33FJ12GP201-E/P |

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|-----------------------|
| DSPIC33FJ12GP201-I/P |
| DSPIC33FJ12GP202-E/SP |
| DSPIC33FJ12GP202-I/SP |
| DSPIC33FJ12MC202-E/SP |
| DSPIC33FJ12MC202-I/SP |
| DSPIC33FJ16GS402-E/SP |
| DSPIC33FJ16GS402-I/SP |
| DSPIC33FJ16GS502-E/SP |
| DSPIC33FJ16GS502-I/SP |
| DSPIC33FJ32GP202-E/SP |
| DSPIC33FJ32GP202-I/SP |
| DSPIC33FJ32GP302-E/SP |
| DSPIC33FJ32GP302-I/SP |
| DSPIC33FJ32MC202-E/SP |
| DSPIC33FJ32MC202-I/SP |
| DSPIC33FJ32MC302-E/SP |
| DSPIC33FJ32MC302-I/SP |
| DSPIC33FJ64GP202-E/SP |
| DSPIC33FJ64GP202-I/SP |
| DSPIC33FJ64GP802-E/SP |
| DSPIC33FJ64GP802-I/SP |
| DSPIC33FJ64MC202-E/SP |
| DSPIC33FJ64MC202-I/SP |
| 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 |

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|-------------------|
| 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 |
| MCP23008-E/P |
| MCP23009-E/P |
| MCP23017-E/SP |
| MCP23018-E/SP |
| 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 |

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|----------------|
| 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 |
| MCP4132-503E/P |
| MCP4141-103E/P |
| MCP4141-104E/P |
| MCP4141-502E/P |
| MCP4141-503E/P |
| MCP4142-103E/P |
| MCP4142-104E/P |
| MCP4142-502E/P |
| MCP4142-503E/P |
| MCP4151-103E/P |
| MCP4151-104E/P |
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| MCP4151-503E/P |
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| MCP4161-103E/P |
| MCP4161-104E/P |
| MCP4161-502E/P |
| MCP4161-503E/P |
| MCP4162-103E/P |
| MCP4162-104E/P |

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| MCP4162-502E/P |
| MCP4162-503E/P |
| MCP4801-E/P |
| MCP4802-E/P |
| 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 |

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| 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 |
| MCP6291-E/P |
| MCP6292-E/P |
| MCP6293-E/P |
| MCP6295-E/P |
| MCP6541-E/P |
| MCP6541-I/P |
| MCP6542-E/P |
| MCP6542-I/P |
| MCP6543-E/P |
| MCP6543-I/P |
| MCP6546-E/P |
| MCP6546-I/P |
| MCP6547-E/P |
| MCP6547-I/P |
| 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 |
| PIC10F202-I/P |
| PIC10F202-I/P057 |
| PIC10F202-I/P074 |
| PIC10F204-E/P |
| PIC10F204-I/P |
| PIC10F204-I/P030 |
| PIC10F204-I/P041 |
| PIC10F206-E/P |
| PIC10F206-I/P |

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| PIC12F629-I/P189 |
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| TC649BEPA |
| TC649VPA |
| TC682CPA |
| TC682EPA |
| TC7650CPA |
| TC7652CPA |
| TC7660CPA |
| TC7660EPA |
| TC7660HCPA |
| TC7660HEPA |
| TC7660SCPA |
| TC7660SEPA |
| TC7662ACPA |
| TC7662AEPA |

| |
|------------|
| TC7662BCPA |
| TC7662BEPA |
| TC913ACPA |
| TC913AIPA |
| TC913BCPA |
| TC962CPA |
| TC962EPA |



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 |
|-------------------------|----------------------|------------------|
| MTAI113501117 | TMPE211237786.A00 | 1048QBU |
| MTAI113501118 | TMPE211237786.900 | 1048QBV |
| MTAI113501119 | 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 MTA113501117.000) | 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 MTA113501117.000) | QCI-33003 | 30(0) | 12/19/10 | 12/19/10 | 0/30 | | |
| UNBIASED-HAST | Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams) | S12/14/16 (PDC) | 231(0) | 12/19/10 | 12/28/10 | 0/231 | Pass | 77 units / lot |
| | | 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 MTAI113501117.000) | 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 S12/14/16 (PDC) | | 12/07/10 | 12/30/10 | 45 | | 45 units |
| | Electrical Test: +25°C and 85°C System: J750 | | 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 | |