

Date: 24 Aug 2011

Product Category: Memory; 16-bit Microcontrollers and Digital Signal Controllers; Analog (Linear & Mixed Signal) AND Interface; Touch Sensing Technologies; RF and Security; Analog (Thermal, Power Management & Safety); Radio Frequency Devices; 8-bit Microcontrollers

Device Family:  

Notification subject: CCB 1081: Qualification of 8L, 14L, 16L, 20L PDIP, & 28L SPDIP with CRM-1064L die attach at ALPH (MMT) assembly site.

Notification text: PCN Status:
Initial notification

Microchip Parts Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-19TJTE192_Affected_CPN.xls
PCN_CYER-19TJTE192_Affected_CPN.pdf

Description of Change:
Qualification of 8L, 14L, 16L, 20L PDIP, & 28L SPDIP with CRM-1064L die attach at ALPH (MMT) assembly site.

Pre Change:
8390A die attach on 8L, 14L, 16L, 20L PDIP
3280 die attach on 28L SPDIP

Post Change:
CRM-1064L die attach on 8L, 14L, 16L, 20L PDIP & 28L SPDIP

Impacts to Data Sheet:
None

Reason for Change:

To improve on time delivery performance

Change Implementation Status:
In Progress

Estimated First Ship Date:
November 25, 2011 (date code: 1148)

NOTE: Please be advised that during the transition period customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices:
Traceability code

Revision History:
August 24, 2011: Issued initial notification.

Attachment(s):

[PCN_CYER-19TJTE192_Affected_CPN.pdf](#) [PCN_CYER-19TJTE192_Affected_CPN.xls](#) [PCN_CYER-19TJTE192_Qual Plan.pdf](#)

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

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PCN_CYER-19TJTE192
CATALOG_PART_NBR
23A256-I/P
23A640-I/P
23K256-E/P
23K256-I/P
23K640-E/P
23K640-I/P
24AA00/P
24AA00-I/P
24AA02-I/PG
24AA04/P
24AA04H-I/P
24AA04-I/P
24AA08/P
24AA08H-I/P
24AA08-I/P
24AA08-I/PG
24AA128-I/P
24AA16/P
24AA16H-I/P
24AA16-I/P
24AA256-I/P
24AA256-I/PG
24AA32AF-I/P
24AA32A-I/P
24AA512-I/P
24AA64/P
24AA64/PRVA
24AA64F-I/P
24AA64-I/P
24AA64-I/PG
24C00/P
24C00-E/P
24C00-I/P
24FC256-I/P
24FC512-I/P
24FC64F-I/P
24FC64-I/P
24LC00/P
24LC00-I/P
24LC01B-I/PG
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
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24LC128-I/P
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24LC16B-E/P
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24LC16BH-I/P
24LC16B-I/P
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24LC21A/P
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24LC21A-I/PG
24LC21-I/P
24LC22A-I/P
24LC256-E/P
24LC256-I/P
24LC256-I/PG
24LC256-I/PRVE
24LC32A/P
24LC32A-E/P
24LC32AF-E/P
24LC32AF-I/P
24LC32A-I/P
24LC512-E/P
24LC512-I/P
24LC64-E/P
24LC64F-E/P
24LC64F-I/P
24LC64-I/P
24LC64-I/PG
24LCS21A/P
24LCS21A-I/P
24LCS21A-I/PG
24LCS22A-I/P
25AA040/P
25AA040-I/P
25AA080/P
25AA080A-I/P
25AA080B-I/P
25AA080C-I/P
25AA080D-I/P
25AA080-I/P
25AA128-I/P
25AA160/P
25AA160A-I/P
25AA160B-I/P
25AA160C-I/P
25AA160D-I/P
25AA160-I/P
25AA160-I/PG

25AA256-I/P
25AA320A-I/P
25AA320-I/P
25AA640A-I/P
25AA640-I/P
25AA640-I/PG
25C040/P
25C040-E/P
25C040-I/P
25C080/P
25C080-E/P
25C080-I/P
25C160/P
25C160-E/P
25C160-I/P
25C320/P
25C320-I/P
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25LC640-I/P

25LC640-I/PG
93AA46/P
93AA46A-I/P
93AA46B-I/P
93AA46C-I/P
93AA56/P
93AA56A-I/P
93AA56B-I/P
93AA56C-I/P
93AA56-I/P
93AA66/P
93AA66A-I/P
93AA66B-I/P
93AA66C-I/P
93AA66-I/P
93AA76/P
93AA76C-I/P
93AA86/P
93AA86C-I/P
93C46A-E/P
93C46A-I/P
93C46B/P
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93C46B-I/P
93C46B-I/PRVA
93C46C-E/P
93C46C-I/P
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93C56A-I/P
93C56B-E/P
93C56B-E/PRVA
93C56B-I/P
93C56C-E/P
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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
93LC46B/P
93LC46B/PRVA
93LC46B-E/P
93LC46B-I/P
93LC46B-I/PRVA
93LC46C-E/P
93LC46C-I/P
93LC46-I/P
93LC46-I/PG
93LC56/P
93LC56A/P
93LC56A-E/P
93LC56A-I/P
93LC56B/P
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93LC66C-E/P
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93LC76C-I/P
93LC76-I/P
93LC86/P
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93LC86C-I/P
93LC86-I/P
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DSPIC30F2012-20I/SP
DSPIC30F2012-30I/SP
DSPIC33FJ12GP202-E/SP
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ENC28J60-I/SP
GEN321-I/P004
HA3078-I/SP
HA3089A-I/SP
HA3089-I/SP
HB12-100D0S/12DB30
HCS101/P
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HCS200/P
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HCS201/P
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HCS201/P032
HCS201-I/P
HCS300/P
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HCS301/P
HCS301-I/P
HCS500/P
HCS500-I/P
HI12-100D0S/12DI30
HS12-100D0S/12DS30
MCP1406-E/P
MCP1407-E/P
MCP1525-I/P
MCP1541-I/P
MCP2004-E/P
MCP201-E/P
MCP201-I/P
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MCP2021-500E/P
MCP2022-330E/P
MCP2022-500E/P
MCP2036-I/P
MCP2120-I/P
MCP2122-E/P
MCP23017-E/SP
MCP23S17-E/SP
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MCP2551-I/P
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MCP3002-I/P
MCP3004-I/P
MCP3008-I/P

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MCP3302-CI/P
MCP3304-BI/P
MCP3304-CI/P
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MCP606-I/P
MCP607-I/P
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MCP608-I/P
MCP609-I/P
MCP6141-E/P
MCP6141-I/P
MCP6142-E/P
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MCP617-I/P

MCP618-I/P
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MCP6S21-I/P
MCP6S22-I/P
MCP6S26-I/P
MCP6S28-I/P
MCP6S91-E/P
MCP6S92-E/P
MCP722C-I/SPV03
MCRF450/P
MCV08A-I/P
MCV14A-I/P
MCV28A-I/SP
PIC10F200-E/P
PIC10F200-I/P
PIC10F202-E/P
PIC10F202-I/P
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PIC10F202-I/P074
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PIC10F204-I/P

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PIC10F204-I/P041
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PIC10F220-E/P
PIC10F220-I/P
PIC10F222-E/P
PIC10F222-I/P
PIC10F222-I/P025
PIC12C508-04/P
PIC12C508-04E/P
PIC12C508-04I/P
PIC12C508A-04/P
PIC12C508A-04/P072
PIC12C508A-04/P150
PIC12C508A-04E/P
PIC12C508A-04I/P
PIC12C508A-04I/P020
PIC12C508A-04I/P085
PIC12C508A-04I/P151
PIC12C508A-04I/P158
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PIC12C508A-04I/P202
PIC12C508A-04I/P212
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PIC12C508A-04I/P230
PIC12C509-04/P
PIC12C509-04E/P
PIC12C509-04I/P
PIC12C509A-04/P
PIC12C509A-04E/P
PIC12C509A-04I/P
PIC12C509A-04I/P053
PIC12C509A-04I/P090
PIC12CR509A-04/P013
PIC12CR509A-04I/P054
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PIC12F1822-I/PC01
PIC12F1822-I/PC05
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PIC12F1840-I/PC01
PIC12F508-E/P
PIC12F508-I/P
PIC12F509-E/P
PIC12F509-I/P
PIC12F510-E/P
PIC12F510-I/P
PIC12F510-I/P020
PIC12F510-I/P021
PIC12F510-I/P030

PIC12F510-I/P031
PIC12F510-I/P042
PIC12F510-I/P043
PIC12F510-I/P045
PIC12F510-I/P063
PIC12F519-E/P
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PIC12F615-I/P
PIC12F617-E/P
PIC12F617-I/P
PIC12F629-C/P
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PIC12F629-E/P227
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PIC12F635-E/P
PIC12F635-I/P
PIC12F675-C/P
PIC12F675-E/P
PIC12F675-I/P
PIC12F675-I/P094
PIC12F675-I/P103
PIC12F675-I/P113
PIC12F675-I/P114
PIC12F675-I/P115
PIC12F675-I/P127
PIC12F675-I/P140
PIC12F675-I/P141
PIC12F675-I/P156
PIC12F675-I/P161
PIC12F675-I/P163
PIC12F675-I/PG
PIC12F683-E/P
PIC12F683-I/P
PIC12F683-I/P047
PIC12F683-I/P048
PIC12F683-I/P063
PIC12F683-I/P064
PIC12F683-I/P065
PIC12F683-I/P067
PIC12F683-I/P068
PIC12F683-I/P069
PIC12F683-I/P074
PIC12HV609-E/P
PIC12HV609-I/P
PIC12HV615-E/P

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PIC12LC509A-04/P
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PIC12LC509A-04I/P
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PIC12LF1822-I/P
PIC12LF1840-E/P
PIC12LF1840-I/P
PIC14000-04/SP
PIC14000-04I/SP
PIC14000-20/SP
PIC14000-20I/SP
PIC16C505-04/P
PIC16C505-04/P085
PIC16C505-04/P102
PIC16C505-04E/P
PIC16C505-04I/P
PIC16C505-04I/P032
PIC16C505-04I/P101
PIC16C505-04I/P121
PIC16C505-04I/P122
PIC16C505-04I/P128
PIC16C505-04I/P131
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PIC16C55A-20/SP
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PIC16C55A-40/SP
PIC16C55-HS/SP
PIC16C55-HSI/SP
PIC16C55-LP/SP
PIC16C55-LPI/SP
PIC16C55-RC/SP
PIC16C55-RCI/SP
PIC16C55-XT/SP
PIC16C55-XTE/SP
PIC16C55-XTI/SP
PIC16C57-10/SP
PIC16C57-10I/SP
PIC16C57C-04/SP
PIC16C57C-04/SP050
PIC16C57C-04E/SP
PIC16C57C-04I/SP
PIC16C57C-20/SP

PIC16C57C-20I/SP
PIC16C57C-40/SP
PIC16C57-HS/SP
PIC16C57-HSI/SP
PIC16C57-LP/SP
PIC16C57-LPI/SP
PIC16C57-RC/SP
PIC16C57-RCE/SP
PIC16C57-RCI/SP
PIC16C57-XT/SP
PIC16C57-XTE/SP
PIC16C57-XTI/SP
PIC16C62B-04/SP
PIC16C62B-04I/SP
PIC16C62B-20/SP
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PIC16C62B-20E/SP
PIC16C62B-20I/SP
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PIC16C63A-04I/SP
PIC16C63A-04I/SP069
PIC16C63A-04I/SP078
PIC16C63A-04I/SP081
PIC16C63A-20/SP
PIC16C63A-20E/SP
PIC16C63A-20I/SP
PIC16C63A-20I/SPD43
PIC16C642-04/SP
PIC16C642-04I/SP
PIC16C642-10I/SP
PIC16C642-20/SP
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PIC16C66-04/SP
PIC16C66-04I/SP
PIC16C66-10/SP
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TC7662A



MICROCHIP

QUALIFICATION PLAN

PCN #: CYER-19TJTE192

**Date:
Aug 18, 2011**

Qualification of 28L SPDIP with CRM-1064L die attach at ALPH (MMT) assembly site. The 8L, 14L, 16L, 20L PDIP packages will qualify by similarity.

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Purpose _____ Qualification of 28L SPDIP with CRM-1064L die attach at ALPH (MMT) assembly site. The 8L, 14L, 16L, 20L PDIP packages will qualify by similarity.

MP Code _____ A7BA2

Part No. _____ PIC16C745

Bonding Diagram _____ BDM-000042 rev.A

CCB No. _____ 1081

Package Type _____ 28L SPDIP 300"

Die Thickness _____ 15 mils

Lead frame _____ A194

Die Size _____ 164.4 x 204.1 mils

Paddle Size _____ 180 x 240 mils

Surface _____ Ag spot

Process _____ Stamped

Lead Lock _____ Yes

Die Attach Epoxy _____ Sumitomo CRM-1064L

Wire _____ Au

Compound _____ GE-800

Plating composition _____ Matte Sn

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail/Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	30 bonds from a minimum of 5 devices.
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp.	45	5	1	50	0	10	Must be in progress at time of package release to production, but completion is not required for release to production. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable)
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable)
Unbiased HAST	+130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable).