



Product Change Notification - LIAL-21URFI599

Date:

24 May 2018

Product Category:

Digital Potentiometers; Capacitive Touch Sensors; 8-bit PIC Microcontrollers; 16-Bit - Microcontrollers and Digital Signal Controllers; 32-bit PIC Microcontrollers; Sensor Fusion Hub; USB Power Delivery; Ethernet Controllers; Hybrid Controllers; Others; Touch Controllers; USB Bridge; Interface- Serial Peripherals; Energy Measurement

Affected CPNs:**Notification subject:**

CCB 3223, 3223.001-3223.007 Final Notice: Qualification of MMT as an additional assembly site for selected products of 0.25um, 0.18um TSMC, 70nm SMIC, Vanguard,120K,130K, 150K, 160K, 165K, 200K and 290K wafer technologies in 44L, 28 QFN-S, 20L,16L and 28L QFN packages.

Notification text:**PCN Status:**

Final notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of MMT as an additional assembly site for selected products of 0.25um, 0.18um TSMC, 70nm SMIC, Vanguard,120K,130K, 150K, 160K, 165K, 200K and 290K wafer technologies in 44L, 28 QFN-S, 20L,16L and 28L QFN packages.

Pre Change:

Assembled at MTAI assembly site

Post Change:

Assembled at MTAI or MMT assembly site

Pre and Post Change Summary:

| | Pre Change | Post Change | |
|----------------------------------|--|--|---|
| Assembly Site | Microchip Technology Thailand HQ (MTAI) | Microchip Technology Thailand HQ (MTAI) | Microchip Technology Thailand Branch (MMT) |
| Wire material | Au | Au | |
| Die attach material | 3280 | 3280 | |
| Molding compound material | G700LTD | G700LTD | |
| Lead frame material | C194 | C194 | |

Impacts to Data Sheet:

None

Change Impact:

None



Reason for Change:

To improve on-time delivery performance by qualifying MMT as an additional assembly site

Change Implementation Status:

In progress

Estimated First Ship Date:

June 24, 2018 (date code:1826)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

| | January 2018 | | | | | --> | May 2018 | | | | | June 2018 | | | | |
|-------------------------------|--------------|----|----|----|----|-----|----------|----|----|----|----|-----------|----|----|----|--|
| Workweek | 01 | 02 | 03 | 04 | 05 | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Initial PCN Issue Date | | | | X | | | | | | | | | | | | |
| Qual Report Availability | | | | | | | | | | X | | | | | | |
| Final PCN Issue Date | | | | | | | | | | X | | | | | | |
| Estimated Implementation Date | | | | | | | | | | | | | | | X | |

Method to Identify Change:

Traceability code

Qualification Report:

Please open the attachments included with this PCN labeled as PCN_#_Qual Report

Revision History:

February 01, 2018: Issue initial notification

February 12, 2018: Re-issue initial notification to correct the file name of the affected CPN

May 24, 2018: Issued final notification. Attached is the qualification report. Updated the affected CPN list. Provided estimated first ship date to be on June 24, 2018.

The change described in this PCN does not alter Microchip’s current regulatory compliance regarding the material content of the applicable products.

Attachment(s):

[PCN_LIAL-21URFI599 QUAL_REPORT.pdf](#)

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

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products or services."

LIAL-21URFI599 - CCB 3223, 3223.001-3223.007 Final Notice: Qualification of MMT as an additional assembly site for selected products of 0.25um, 0.18um TSMC, 70nm SMIC, Vanguard,120K,130K, 150K, 160K, 165K, 200K and 290K wafer technologies in 44L, 28 QFN-S, 20L,16L and 28L QFN packages.

| Affected Catalog Part Numbers(CPN) |
|---|
| |
| A010201-I/MQ |
| A010201T-I/MQ |
| A010201T-I/MQ050 |
| AR1010-I/ML |
| AR1010T-I/ML |
| AR1011-I/ML |
| AR1011T-I/ML |
| AR1020-I/ML |
| AR1020T-I/ML |
| AR1021-I/ML |
| AR1021T-I/ML |
| AR1100-I/MQ |
| AR1100T-I/MQ |
| DSPIC30F1010-20E/MM |
| DSPIC30F1010-30I/MM |
| DSPIC30F2010-20E/MM |
| DSPIC30F2010-20I/MM |
| DSPIC30F2010-30I/MM |
| DSPIC30F2010T-20E/MM |
| DSPIC30F2010T-20I/MM |
| DSPIC30F2010T-30I/MM |
| DSPIC30F2010T-30V/MMA31 |
| DSPIC30F2011-20I/ML |
| DSPIC30F2011-30I/ML |
| DSPIC30F2012-20E/ML |
| DSPIC30F2012-20I/ML |
| DSPIC30F2012-30I/ML |
| DSPIC30F2020-20E/MM |
| DSPIC30F2020-30I/MM |
| DSPIC30F2020T-30I/MM |
| DSPIC30F2023-20E/ML |
| DSPIC30F2023-30I/ML |
| DSPIC30F2023T-30I/ML |
| DSPIC30F2023T-30V/MLD31 |
| DSPIC30F3010-20I/ML |
| DSPIC30F3010-30I/ML |
| DSPIC30F3010T-30I/ML |
| DSPIC30F3011-10I/MLB24 |
| DSPIC30F3011-20E/ML |
| DSPIC30F3011-20I/ML |
| DSPIC30F3011-30I/ML |

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| DSPIC30F3011T-10I/MLB21 |
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| DSPIC30F3012-30I/ML |
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| DSPIC30F3013-20E/ML |
| DSPIC30F3013-20I/ML |
| DSPIC30F3013-30I/ML |
| DSPIC30F3013-30I/MLB31 |
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| DSPIC30F3013T-30I/ML |
| DSPIC30F3013T-30I/MLB31 |
| DSPIC30F3014-20E/ML |
| DSPIC30F3014-20I/ML |
| DSPIC30F3014-30I/ML |
| DSPIC30F3014-30I/MLA31 |
| DSPIC30F3014T-30I/MLA31 |
| DSPIC30F4011-20E/ML |
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| DSPIC30F4011-30I/ML |
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| DSPIC30F4012-20I/ML |
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| DSPIC30F4013-20I/ML |
| DSPIC30F4013-30I/ML |
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| DSPIC30F4013T-30I/ML |
| DSPIC30F4013T-30I/MLB31 |
| DSPIC33EP128GM304-E/ML |
| DSPIC33EP128GM304-I/ML |
| DSPIC33EP128GM604-E/ML |
| DSPIC33EP128GM604-I/ML |
| DSPIC33EP128GP502-I/MM |
| DSPIC33EP128GP502T-I/MM |
| DSPIC33EP128GP504-E/ML |
| DSPIC33EP128GP504-H/ML |
| DSPIC33EP128GP504-I/ML |
| DSPIC33EP128GP504-I/MLA3 |
| DSPIC33EP128GP504T-E/ML |
| DSPIC33EP128GP504T-I/ML |
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| DSPIC33EP128MC202T-I/MM |
| DSPIC33EP128MC204-E/ML |
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| DSPIC33EP128MC204T-I/ML |
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| DSPIC33EP32GP502T-E/MM |
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| DSPIC33EP32GP504T-I/ML |
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| DSPIC33EP32GS402T-I/MMC01 |
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| DSPIC33EP64GP504-I/ML |
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| DSPIC33EP64GP504T-H/ML |
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| DSPIC33EP64GS502-I/MMC07 |
| DSPIC33EP64GS502-I/MMC12 |
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| DSPIC33EP64GS502T-I/MMC12 |
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| DSPIC33EP64GS504-E/MLC06 |
| DSPIC33EP64GS504-I/ML |
| DSPIC33EP64GS504-I/MLC11 |
| DSPIC33EP64GS504T-E/ML |
| DSPIC33EP64GS504T-I/ML |
| DSPIC33EP64GS504T-I/MLC11 |
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| DSPIC33EP64MC202-I/MM |
| DSPIC33EP64MC202T-E/MM |
| DSPIC33EP64MC202T-H/MM |
| DSPIC33EP64MC202T-I/MM |
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| DSPIC33EP64MC204-I/ML |
| DSPIC33EP64MC204T-E/ML |
| DSPIC33EP64MC204T-H/ML |
| DSPIC33EP64MC204T-I/ML |
| DSPIC33EP64MC502-E/MM |

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| DSPIC33EP64MC502-I/MM |
| DSPIC33EP64MC502T-E/MM |
| DSPIC33EP64MC502T-H/MM |
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| DSPIC33EP64MC504-I/ML |
| DSPIC33EP64MC504T-E/ML |
| DSPIC33EP64MC504T-H/ML |
| DSPIC33EP64MC504T-I/ML |
| DSPIC33EV128GM002-E/MM |
| DSPIC33EV128GM002-H/MM |
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| DSPIC33EV128GM004T-I/ML |
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| DSPIC33EV128GM102-H/MM |
| DSPIC33EV128GM102-I/MM |
| DSPIC33EV128GM102T-I/MM |
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| DSPIC33EV128GM104T-I/ML |
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| DSPIC33EV256GM002-H/MM |
| DSPIC33EV256GM002-I/MM |
| DSPIC33EV256GM002T-I/MM |
| DSPIC33EV256GM004-E/ML |
| DSPIC33EV256GM004-H/ML |
| DSPIC33EV256GM004-I/ML |
| DSPIC33EV256GM004T-I/ML |
| DSPIC33EV256GM102-E/MM |
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| DSPIC33EV256GM102T-I/MM |
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| DSPIC33EV256GM104-I/ML |
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| DSPIC33EV32GM002-E/MM |
| DSPIC33EV32GM002-H/MM |
| DSPIC33EV32GM002-I/MM |
| DSPIC33EV32GM002T-I/MM |

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| DSPIC33EV32GM004-H/ML |
| DSPIC33EV32GM004-I/ML |
| DSPIC33EV32GM004T-I/ML |
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| DSPIC33EV32GM102-H/MM |
| DSPIC33EV32GM102-I/MM |
| DSPIC33EV32GM102T-I/MM |
| DSPIC33EV32GM104-E/ML |
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| DSPIC33EV32GM104-I/ML |
| DSPIC33EV32GM104T-I/ML |
| DSPIC33EV64GM002-E/MM |
| DSPIC33EV64GM002-H/MM |
| DSPIC33EV64GM002-I/MM |
| DSPIC33EV64GM002T-I/MM |
| DSPIC33EV64GM004-E/ML |
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| DSPIC33EV64GM004-I/ML |
| DSPIC33EV64GM004T-I/ML |
| DSPIC33EV64GM102-E/MM |
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| DSPIC33EV64GM102-I/MM |
| DSPIC33EV64GM102T-I/MM |
| DSPIC33EV64GM104-E/ML |
| DSPIC33EV64GM104-H/ML |
| DSPIC33EV64GM104-I/ML |
| DSPIC33EV64GM104T-I/ML |
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| DSPIC33FJ06GS102A-I/MM |
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| DSPIC33FJ06GS102-I/MM |
| DSPIC33FJ06GS102T-E/MM |
| DSPIC33FJ06GS102T-I/MM |
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| DSPIC33FJ06GS202AT-E/MM |
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| DSPIC33FJ06GS202-E/MM |
| DSPIC33FJ06GS202-E/MMC04 |
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| DSPIC33FJ06GS202T-E/MM |
| DSPIC33FJ06GS202T-E/MMC04 |
| DSPIC33FJ06GS202T-E/MMC06 |
| DSPIC33FJ06GS202T-I/MM |

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| DSPIC33FJ09GS302-E/MM |
| DSPIC33FJ09GS302-I/MM |
| DSPIC33FJ09GS302T-E/MM |
| DSPIC33FJ09GS302T-I/MM |
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| DSPIC33FJ128GP202-I/MM |
| DSPIC33FJ128GP202T-E/MM |
| DSPIC33FJ128GP202T-I/MM |
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| DSPIC33FJ128GP204T-E/ML |
| DSPIC33FJ128GP204T-I/ML |
| DSPIC33FJ128GP802-E/MM |
| DSPIC33FJ128GP802-I/MM |
| DSPIC33FJ128GP802T-E/MM |
| DSPIC33FJ128GP802T-I/MM |
| DSPIC33FJ128GP802T-I/MM038 |
| DSPIC33FJ128GP802T-I/MM039 |
| DSPIC33FJ128GP804-E/ML |
| DSPIC33FJ128GP804-H/ML |
| DSPIC33FJ128GP804-I/ML |
| DSPIC33FJ128GP804T-E/ML |
| DSPIC33FJ128GP804T-H/ML |
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| DSPIC33FJ128MC204T-I/ML |
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| DSPIC33FJ128MC802-I/MM |
| DSPIC33FJ128MC802T-E/MM |
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| DSPIC33FJ128MC804-H/ML |
| DSPIC33FJ128MC804-I/ML |
| DSPIC33FJ128MC804T-E/ML |
| DSPIC33FJ128MC804T-H/ML |
| DSPIC33FJ128MC804T-I/ML |
| DSPIC33FJ12GP202-E/ML |
| DSPIC33FJ12GP202-I/ML |
| DSPIC33FJ12GP202T-E/ML |

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| DSPIC33FJ12GP202T-I/ML |
| DSPIC33FJ12MC202-E/ML |
| DSPIC33FJ12MC202-I/ML |
| DSPIC33FJ12MC202T-E/ML |
| DSPIC33FJ12MC202T-I/ML |
| DSPIC33FJ16GP102-E/ML |
| DSPIC33FJ16GP102-H/ML |
| DSPIC33FJ16GP102-I/ML |
| DSPIC33FJ16GP102T-E/ML |
| DSPIC33FJ16GP102T-I/ML |
| DSPIC33FJ16GP304-I/ML |
| DSPIC33FJ16GP304T-E/ML |
| DSPIC33FJ16GP304T-I/ML |
| DSPIC33FJ16GS402-50I/MM |
| DSPIC33FJ16GS402-E/MM |
| DSPIC33FJ16GS402-H/MM |
| DSPIC33FJ16GS402-I/MM |
| DSPIC33FJ16GS402T-50I/MM |
| DSPIC33FJ16GS402T-E/MM |
| DSPIC33FJ16GS402T-H/MM |
| DSPIC33FJ16GS402T-I/MM |
| DSPIC33FJ16GS404-50I/ML |
| DSPIC33FJ16GS404-E/ML |
| DSPIC33FJ16GS404-H/ML |
| DSPIC33FJ16GS404-I/ML |
| DSPIC33FJ16GS404T-50I/ML |
| DSPIC33FJ16GS404T-E/ML |
| DSPIC33FJ16GS404T-H/ML |
| DSPIC33FJ16GS404T-I/ML |
| DSPIC33FJ16GS502-50I/MM |
| DSPIC33FJ16GS502-E/MM |
| DSPIC33FJ16GS502-E/MMC03 |
| DSPIC33FJ16GS502-H/MM |
| DSPIC33FJ16GS502-I/MM |
| DSPIC33FJ16GS502T-50I/MM |
| DSPIC33FJ16GS502T-E/MM |
| DSPIC33FJ16GS502T-E/MMC03 |
| DSPIC33FJ16GS502T-H/MM |
| DSPIC33FJ16GS502T-I/MM |
| DSPIC33FJ16GS504-50I/ML |
| DSPIC33FJ16GS504-E/ML |
| DSPIC33FJ16GS504-H/ML |
| DSPIC33FJ16GS504-I/ML |
| DSPIC33FJ16GS504T-50I/ML |
| DSPIC33FJ16GS504T-E/ML |
| DSPIC33FJ16GS504T-H/ML |
| DSPIC33FJ16GS504T-I/ML |

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| DSPIC33FJ16MC102-H/ML |
| DSPIC33FJ16MC102-I/ML |
| DSPIC33FJ16MC102T-E/ML |
| DSPIC33FJ16MC102T-I/ML |
| DSPIC33FJ16MC304-E/ML |
| DSPIC33FJ16MC304-H/ML |
| DSPIC33FJ16MC304-I/ML |
| DSPIC33FJ16MC304T-E/ML |
| DSPIC33FJ16MC304T-I/ML |
| DSPIC33FJ32GP104-I/ML |
| DSPIC33FJ32GP202-E/MM |
| DSPIC33FJ32GP202-I/MM |
| DSPIC33FJ32GP202T-E/MM |
| DSPIC33FJ32GP202T-I/MM |
| DSPIC33FJ32GP204-I/ML |
| DSPIC33FJ32GP204T-E/ML |
| DSPIC33FJ32GP204T-I/ML |
| DSPIC33FJ32GP302-E/MM |
| DSPIC33FJ32GP302-I/MM |
| DSPIC33FJ32GP302T-E/MM |
| DSPIC33FJ32GP302T-E/MMC03 |
| DSPIC33FJ32GP302T-I/MM |
| DSPIC33FJ32GP304-E/ML |
| DSPIC33FJ32GP304-I/ML |
| DSPIC33FJ32GP304T-E/ML |
| DSPIC33FJ32GP304T-I/ML |
| DSPIC33FJ32MC102-I/ML |
| DSPIC33FJ32MC202-E/MM |
| DSPIC33FJ32MC202-H/MM |
| DSPIC33FJ32MC202-I/MM |
| DSPIC33FJ32MC202T-E/MM |
| DSPIC33FJ32MC202T-H/MM |
| DSPIC33FJ32MC202T-I/MM |
| DSPIC33FJ32MC204-E/ML |
| DSPIC33FJ32MC204-H/ML |
| DSPIC33FJ32MC204-I/ML |
| DSPIC33FJ32MC204T-E/ML |
| DSPIC33FJ32MC204T-I/ML |
| DSPIC33FJ32MC204T-V/MLC21 |
| DSPIC33FJ32MC204-V/MLC21 |
| DSPIC33FJ32MC302-E/MM |
| DSPIC33FJ32MC302-I/MM |
| DSPIC33FJ32MC302T-E/MM |
| DSPIC33FJ32MC302T-I/MM |
| DSPIC33FJ32MC304-E/ML |
| DSPIC33FJ32MC304-I/ML |

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| DSPIC33FJ32MC304T-I/ML |
| DSPIC33FJ64GP202-E/MM |
| DSPIC33FJ64GP202-I/MM |
| DSPIC33FJ64GP202T-E/MM |
| DSPIC33FJ64GP202T-I/MM |
| DSPIC33FJ64GP204-E/ML |
| DSPIC33FJ64GP204-I/ML |
| DSPIC33FJ64GP204T-E/ML |
| DSPIC33FJ64GP204T-I/ML |
| DSPIC33FJ64GP802-E/MM |
| DSPIC33FJ64GP802-H/MM |
| DSPIC33FJ64GP802-I/MM |
| DSPIC33FJ64GP802-I/MMB21 |
| DSPIC33FJ64GP802T-E/MM |
| DSPIC33FJ64GP802T-E/MM032 |
| DSPIC33FJ64GP802T-E/MM041 |
| DSPIC33FJ64GP802T-H/MM |
| DSPIC33FJ64GP802T-I/MM |
| DSPIC33FJ64GP802T-I/MMB21 |
| DSPIC33FJ64GP804-E/ML |
| DSPIC33FJ64GP804-I/ML |
| DSPIC33FJ64GP804T-E/ML |
| DSPIC33FJ64GP804T-I/ML |
| DSPIC33FJ64MC202-E/MM |
| DSPIC33FJ64MC202-E/MMC04 |
| DSPIC33FJ64MC202-I/MM |
| DSPIC33FJ64MC202-I/MM030 |
| DSPIC33FJ64MC202-I/MMC21 |
| DSPIC33FJ64MC202T-E/MM |
| DSPIC33FJ64MC202T-E/MMC04 |
| DSPIC33FJ64MC202T-I/MM |
| DSPIC33FJ64MC202T-I/MM030 |
| DSPIC33FJ64MC202T-I/MMC21 |
| DSPIC33FJ64MC204-E/ML |
| DSPIC33FJ64MC204-E/ML042 |
| DSPIC33FJ64MC204-I/ML |
| DSPIC33FJ64MC204T-E/ML |
| DSPIC33FJ64MC204T-E/ML042 |
| DSPIC33FJ64MC204T-I/ML |
| DSPIC33FJ64MC802-E/MM |
| DSPIC33FJ64MC802-H/MM |
| DSPIC33FJ64MC802-I/MM |
| DSPIC33FJ64MC802T-E/MM |
| DSPIC33FJ64MC802T-H/MM |
| DSPIC33FJ64MC802T-I/MM |
| DSPIC33FJ64MC804-E/ML |

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| DSPIC33FJ64MC804T-H/ML |
| DSPIC33FJ64MC804T-I/ML |
| ENC28J60-I/ML |
| ENC28J60T-I/ML |
| ENC424J600-I/ML |
| ENC424J600T-I/ML |
| HA2223-I/ML |
| HA2223T-I/ML |
| HA7612-I/MM033 |
| HA7612-I/MM036 |
| HA7612T-I/MM033 |
| HA7612T-I/MM036 |
| HA7617-I/ML035 |
| HA7617-I/ML040 |
| HA7617T-I/ML035 |
| HA7617T-I/ML040 |
| HA7617T-I/ML044 |
| HA7617T-I/ML046 |
| HA7619-I/ML027 |
| HA7619-I/MM028 |
| HA7619T-I/ML025 |
| HA7619T-I/ML027 |
| HA7619T-I/MM028 |
| MCP19111-E/MQ |
| MCP19111T-E/MQ |
| MCP19114-E/MQ |
| MCP19114T-E/MQ |
| MCP19115-E/MQ |
| MCP19115T-E/MQ |
| MCP19117-E/MQ |
| MCP19117T-E/MQ |
| MCP19119-E/MQ |
| MCP19119T-E/MQ |
| MCP19123-E/MQ |
| MCP19123T-E/MQ |
| MCP19125-E/MQ |
| MCP19125T-E/MQ |
| MCP2036-I/MG |
| MCP2036T-I/MG |
| MCP2200-E/MQ046 |
| MCP2200-I/MQ |
| MCP2200-I/MQ031 |
| MCP2200-I/MQ046 |
| MCP2200-I/MQRVB |

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| MCP2200T-I/MQ031 |
| MCP2200T-I/MQ046 |
| MCP2200T-I/MQRVB |
| MCP2210-I/MQ |
| MCP2210T-I/MQ |
| MCP2221A-I/ML |
| MCP2221AT-I/ML |
| MCP2221-I/ML |
| MCP2221T-I/ML |
| MCP23016-I/ML |
| MCP23016T-I/ML |
| MCP23017-E/ML |
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| MCP23S17-E/ML |
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| MCP3901A0-I/ML |
| MCP3901A0T-E/ML |
| MCP3901A0T-I/ML |
| MCP3910A1-E/ML |
| MCP3910A1T-E/ML |
| MCP3911A0-E/ML |
| MCP3911A0T-E/ML |
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| MCP3912A1T-E/MQ |
| MCP3918A1-E/ML |
| MCP3918A1T-E/ML |
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| MCP4661T-502E/ML |
| MCP4661T-503E/ML |
| MCP4661T-503QE/ML |
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| MTCH105T-I/ML |
| MTCH6301-I/ML |
| MTCH6301T-I/ML |
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| PIC16F1454T-I/ML |
| PIC16F1455-E/ML |
| PIC16F1455-I/ML |
| PIC16F1455-I/MLC02 |
| PIC16F1455T-I/ML |

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| PIC16F1459-E/ML |
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| PIC16F1459T-I/MLC01 |
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| PIC16F1509-E/ML |
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| PIC16F1708T-E/ML028 |
| PIC16F1708T-E/ML030 |
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| PIC16F1709T-I/ML020 |
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| PIC16F636T-I/ML |
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| PIC18F13K22-I/ML |
| PIC18F13K22T-I/ML |
| PIC18F13K22T-I/ML020 |
| PIC18F13K50-I/MQ |
| PIC18F13K50T-I/MQ |
| PIC18F14K22-E/ML |
| PIC18F14K22-I/ML |
| PIC18F14K22T-E/ML |
| PIC18F14K22T-I/ML |
| PIC18F14K50-E/MQ |
| PIC18F14K50-I/MQ |
| PIC18F14K50-I/MQ048 |
| PIC18F14K50T-I/MQ |
| PIC18F14K50T-I/MQ029 |
| PIC18F14K50T-I/MQ039 |
| PIC18F14K50T-I/MQ044 |
| PIC18F14K50T-I/MQ045 |
| PIC18F14K50T-I/MQ047 |
| PIC18F14K50T-I/MQ048 |

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| PIC18F2221T-I/ML |
| PIC18F2321-E/ML |
| PIC18F2321-I/ML |
| PIC18F2331-E/MM |
| PIC18F2331-I/MM |
| PIC18F2331T-I/MM |
| PIC18F23K20-E/ML |
| PIC18F23K20-I/ML |
| PIC18F23K20T-E/ML |
| PIC18F23K20T-I/ML |
| PIC18F23K22-E/ML |
| PIC18F23K22-I/ML |
| PIC18F23K22T-E/ML |
| PIC18F23K22T-I/ML |
| PIC18F2410-E/ML |
| PIC18F2410-I/ML |
| PIC18F2420-E/ML |
| PIC18F2420-I/ML |
| PIC18F2420T-E/ML |
| PIC18F2420T-I/ML |
| PIC18F2423-E/ML |
| PIC18F2423-I/ML |
| PIC18F2423T-I/ML |
| PIC18F2431-E/MM |
| PIC18F2431-I/MM |
| PIC18F2431T-E/MM |
| PIC18F2431T-I/MM |
| PIC18F2450-I/ML |
| PIC18F2450T-I/ML |
| PIC18F2480-E/ML |
| PIC18F2480-I/ML |
| PIC18F2480-I/MLC01 |
| PIC18F2480T-E/ML |
| PIC18F2480T-I/ML |
| PIC18F24J10-I/ML |
| PIC18F24J10T-I/ML |
| PIC18F24J11-I/ML |
| PIC18F24J11T-I/ML |
| PIC18F24J50-I/ML |
| PIC18F24J50T-I/ML |
| PIC18F24K20-E/ML |
| PIC18F24K20-I/ML |
| PIC18F24K20T-I/ML |
| PIC18F24K20T-I/ML028 |
| PIC18F24K22-E/ML |

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| PIC18F24K42-E/ML |
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| PIC18F24K42T-I/ML |
| PIC18F24K50-E/ML |
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| PIC18F24K50T-I/ML |
| PIC18F2510-E/ML |
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| PIC18F2520-I/ML |
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| PIC18F2580T-E/ML |
| PIC18F2580T-I/ML |
| PIC18F25J10-I/ML |
| PIC18F25J10-I/ML020 |
| PIC18F25J10T-I/ML |
| PIC18F25J10T-I/ML020 |
| PIC18F25J11-I/ML |
| PIC18F25J11T-I/ML |
| PIC18F25J50-I/ML |
| PIC18F25J50T-I/ML |
| PIC18F25K20-E/ML |
| PIC18F25K20-I/ML |
| PIC18F25K20-I/MLC02 |
| PIC18F25K20-I/MLC05 |
| PIC18F25K20-I/MLC10 |
| PIC18F25K20-I/MLLPR |
| PIC18F25K20T-E/ML |
| PIC18F25K20T-I/ML |
| PIC18F25K20T-I/MLC02 |
| PIC18F25K20T-I/MLC10 |
| PIC18F25K22-E/ML |
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| PIC18F25K22T-E/ML |
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| PIC18F25K42-E/ML |
| PIC18F25K42-I/ML |

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| PIC18F25K50T-E/ML022 |
| PIC18F25K50T-I/ML |
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| PIC18F25K80-I/MM |
| PIC18F25K80-I/MM030 |
| PIC18F25K80-I/MM031 |
| PIC18F25K80-I/MM032 |
| PIC18F25K80-I/MMC04 |
| PIC18F25K80T-E/MM |
| PIC18F25K80T-E/MMC01 |
| PIC18F25K80T-E/MMCUI |
| PIC18F25K80T-H/MM |
| PIC18F25K80T-I/MM |
| PIC18F25K80T-I/MM030 |
| PIC18F25K80T-I/MM031 |
| PIC18F25K80T-I/MM032 |
| PIC18F25K80T-I/MMC04 |
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| PIC18F25K83T-I/ML |
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| PIC18F26J11T-I/ML |
| PIC18F26J13-I/ML |
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| PIC18F26J53-I/ML |
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| PIC18F26K20-I/ML045 |
| PIC18F26K20-I/ML046 |
| PIC18F26K20-I/ML047 |
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| PIC18F26K20-I/ML049 |
| PIC18F26K20-I/ML050 |
| PIC18F26K20-I/MLC03 |
| PIC18F26K20T-E/ML |
| PIC18F26K20T-I/ML |

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| PIC18F26K20T-I/ML036 |
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| PIC18F26K20T-I/ML046 |
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| PIC18F26K20T-I/ML051 |
| PIC18F26K20T-I/ML052 |
| PIC18F26K20T-I/ML053 |
| PIC18F26K20T-I/ML054 |
| PIC18F26K20T-I/ML055 |
| PIC18F26K20T-I/MLC03 |
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| PIC18F26K22-I/MLC03 |
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| PIC18F26K22T-I/ML |
| PIC18F26K22T-I/ML024 |
| PIC18F26K22T-I/MLC03 |
| PIC18F26K42-E/ML |
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| PIC18F26K42T-I/ML |
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| PIC18F26K80-H/MM |
| PIC18F26K80-I/MM |
| PIC18F26K80T-E/MM |
| PIC18F26K80T-I/MM |
| PIC18F26K80T-I/MM023 |
| PIC18F26K80T-I/MM025 |
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| PIC18F26K83T-I/ML |
| PIC18F27J13-I/ML |
| PIC18F27J13T-I/ML |
| PIC18F27J53-I/ML |
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| PIC18F27K42-I/ML |
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| PIC18F4220-I/ML |

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| PIC18F43K22-I/ML |
| PIC18F43K22T-I/ML |
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| PIC18F44K20T-I/ML |
| PIC18F44K22-E/ML |
| PIC18F44K22-I/ML |
| PIC18F44K22T-I/ML |
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| PIC18F45J11T-I/ML |
| PIC18F45J50-I/ML |
| PIC18F45J50T-I/ML |
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| PIC18F45K20-I/MLC05 |
| PIC18F45K20T-I/ML |
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| PIC18F45K20T-I/MLC05 |
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| PIC18F46K80-H/ML |
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| PIC18F46K80T-E/ML |
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| PIC18F47K40-E/ML |
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| PIC18LF13K22T-I/ML |
| PIC18LF13K22T-I/ML023 |
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| PIC18LF14K22T-E/ML021 |
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| PIC18LF14K50T-I/MQ |
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| PIC18LF2431-I/MM |
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| PIC18LF2480-I/ML |
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| PIC18LF25K50T-I/ML |
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| PIC18LF26J50T-I/ML |
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| PIC18LF26J53T-I/ML |
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| PIC18LF26K22-I/MLC04 |
| PIC18LF26K22-I/MLC05 |

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| PIC18LF26K22T-I/MLC05 |
| PIC18LF26K22T-I/MLC06 |
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| PIC18LF26K42T-I/ML |
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| PIC18LF26K80T-I/MM |
| PIC18LF26K80T-I/MMC01 |
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| PIC18LF4420T-I/ML |
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| PIC18LF45K22-E/ML |
| PIC18LF45K22-I/ML |
| PIC18LF45K22T-I/ML |
| PIC18LF45K42-E/ML |
| PIC18LF45K42-I/ML |
| PIC18LF45K42T-I/ML |
| PIC18LF45K80-I/ML |
| PIC18LF45K80T-I/ML |
| PIC18LF4610-I/ML |
| PIC18LF4620-I/ML |
| PIC18LF4620-I/ML035 |
| PIC18LF4620T-I/ML |

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| PIC18LF4682-I/ML |
| PIC18LF4685-I/ML |
| PIC18LF4685T-I/ML |
| PIC18LF46J11-I/ML |
| PIC18LF46J11T-I/ML |
| PIC18LF46J13-I/ML |
| PIC18LF46J13T-I/ML |
| PIC18LF46J50-I/ML |
| PIC18LF46J50T-I/ML |
| PIC18LF46J53-I/ML |
| PIC18LF46J53T-I/ML |
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| PIC18LF46K22T-I/ML |
| PIC18LF46K42-E/ML |
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| PIC18LF46K42T-I/ML |
| PIC18LF46K80-I/ML |
| PIC18LF46K80T-I/ML |
| PIC18LF47J13-I/ML |
| PIC18LF47J13T-I/ML |
| PIC18LF47J53-I/ML |
| PIC18LF47J53T-I/ML |
| PIC18LF47K40-E/ML |
| PIC18LF47K40-I/ML |
| PIC18LF47K40T-I/ML |
| PIC18LF47K42-E/ML |
| PIC18LF47K42-I/ML |
| PIC18LF47K42T-I/ML |
| PIC24EP128GP202-E/MM |
| PIC24EP128GP202-I/MM |
| PIC24EP128GP202-I/MM038 |
| PIC24EP128GP202T-I/MM038 |
| PIC24EP128GP204-E/ML |
| PIC24EP128GP204-H/ML |
| PIC24EP128GP204-I/ML |
| PIC24EP128GP204-I/MLA3 |
| PIC24EP128GP204T-I/ML |
| PIC24EP128MC204-E/ML |
| PIC24EP128MC204-H/ML |
| PIC24EP128MC204-I/ML |
| PIC24EP128MC204-I/MLA3 |
| PIC24EP128MC204T-I/ML |
| PIC24EP256GP202-E/MM |
| PIC24EP256GP202-H/MM |

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| PIC24EP256GP202T-E/MM |
| PIC24EP256GP202T-H/MM |
| PIC24EP256GP202T-I/MM |
| PIC24EP256GP204-E/ML |
| PIC24EP256GP204-H/ML |
| PIC24EP256GP204-I/ML |
| PIC24EP256GP204T-E/ML |
| PIC24EP256GP204T-H/ML |
| PIC24EP256GP204T-I/ML |
| PIC24EP256GP204T-I/ML029 |
| PIC24EP256MC202-E/MM |
| PIC24EP256MC202-H/MM |
| PIC24EP256MC202-I/MM |
| PIC24EP256MC202T-E/MM |
| PIC24EP256MC202T-H/MM |
| PIC24EP256MC202T-I/MM |
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| PIC24EP256MC204-H/ML |
| PIC24EP256MC204-I/ML |
| PIC24EP256MC204T-E/ML |
| PIC24EP256MC204T-H/ML |
| PIC24EP256MC204T-I/ML |
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| PIC24EP32GP202-I/MM |
| PIC24EP32GP202T-E/MM |
| PIC24EP32GP202T-I/MM |
| PIC24EP32GP204-E/ML |
| PIC24EP32GP204-H/ML |
| PIC24EP32GP204-I/ML |
| PIC24EP32GP204T-E/ML |
| PIC24EP32GP204T-H/ML |
| PIC24EP32GP204T-I/ML |
| PIC24EP32MC202-E/MM |
| PIC24EP32MC202-E/MM021 |
| PIC24EP32MC202-I/MM |
| PIC24EP32MC202T-E/MM021 |
| PIC24EP32MC204-E/ML |
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| PIC24EP32MC204-I/ML |
| PIC24EP32MC204T-E/ML |
| PIC24EP32MC204T-H/ML |
| PIC24EP32MC204T-I/ML |
| PIC24EP512GP202-E/MM |
| PIC24EP512GP202-H/MM |
| PIC24EP512GP202-I/MM |
| PIC24EP512GP202T-H/MM |

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| PIC24EP512GP204-H/ML |
| PIC24EP512GP204-I/ML |
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| PIC24EP512GP204T-H/ML |
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| PIC24EP512MC202T-H/MM |
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| PIC24EP512MC204T-I/ML |
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| PIC24EP64GP202T-I/MM |
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| PIC24EP64GP204-H/ML |
| PIC24EP64GP204-I/ML |
| PIC24EP64GP204-I/MLA3 |
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| PIC24EP64GP204T-H/ML |
| PIC24EP64GP204T-I/ML |
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| PIC24EP64MC202-H/MM |
| PIC24EP64MC202-I/MM |
| PIC24EP64MC202T-E/MM |
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| PIC24EP64MC202T-I/MM |
| PIC24EP64MC204-E/ML |
| PIC24EP64MC204-H/ML |
| PIC24EP64MC204-I/ML |
| PIC24EP64MC204T-E/ML |
| PIC24EP64MC204T-H/ML |
| PIC24EP64MC204T-I/ML |
| PIC24F04KA201-I/MQ |
| PIC24F04KL101-E/MQ |
| PIC24F04KL101-I/MQ |
| PIC24F04KL101T-I/MQ |
| PIC24F08KA101-E/MQ |
| PIC24F08KA101-I/MQ |
| PIC24F08KA101T-E/MQ |
| PIC24F08KA101T-I/MQ |

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| PIC24F08KA102-I/ML |
| PIC24F08KL201-E/MQ |
| PIC24F08KL201-I/MQ |
| PIC24F08KL201T-I/MQ |
| PIC24F08KL301-E/MQ |
| PIC24F08KL301-I/MQ |
| PIC24F08KL301T-I/MQ |
| PIC24F08KL301T-I/MQ020 |
| PIC24F08KL302-E/ML |
| PIC24F08KL302-I/ML |
| PIC24F08KL302-I/MQ |
| PIC24F08KL302T-I/MQ |
| PIC24F08KL401-E/MQ |
| PIC24F08KL401-I/MQ |
| PIC24F08KL402-I/ML |
| PIC24F08KL402-I/MQ |
| PIC24F08KM202-I/ML |
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| PIC24F16KA101T-E/MQ |
| PIC24F16KA101T-I/MQ |
| PIC24F16KA102-E/ML |
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| PIC24F16KA102T-I/ML |
| PIC24F16KA302-I/ML |
| PIC24F16KA302T-I/ML |
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| PIC24F16KA304T-I/ML |
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| PIC24F16KL402T-I/ML |
| PIC24F16KL402T-I/MQ |
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| PIC24F16KM202-E/ML |
| PIC24F16KM202-I/ML |
| PIC24F16KM204-E/ML |
| PIC24F16KM204-I/ML |
| PIC24F32KA302-E/ML |
| PIC24F32KA302-I/ML |
| PIC24F32KA302T-E/ML |
| PIC24F32KA302T-I/ML |

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| PIC24F32KA304T-I/ML |
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| PIC24FJ128GA202-I/MM |
| PIC24FJ128GA202T-I/MM |
| PIC24FJ128GA204-I/ML |
| PIC24FJ128GA204T-I/ML |
| PIC24FJ128GA702-I/ML |
| PIC24FJ128GA702T-I/ML |
| PIC24FJ128GB202-I/MM |
| PIC24FJ128GB202T-I/MM |
| PIC24FJ128GB204-E/ML |
| PIC24FJ128GB204-I/ML |
| PIC24FJ128GB204T-I/ML |
| PIC24FJ16GA002-E/ML |
| PIC24FJ16GA002-I/ML |
| PIC24FJ16GA002-I/MLB4 |
| PIC24FJ16GA002-I/MLC10 |
| PIC24FJ16GA002T-E/ML |
| PIC24FJ16GA002T-I/ML |
| PIC24FJ16GA002T-I/ML023 |
| PIC24FJ16GA002T-I/MLC05 |
| PIC24FJ16GA002T-I/MLC06 |
| PIC24FJ16GA004-E/ML |
| PIC24FJ16GA004-I/ML |
| PIC24FJ16GA004T-I/ML |
| PIC24FJ16GA004T-I/MLC09 |
| PIC24FJ16MC102-E/ML |
| PIC24FJ16MC102-H/ML |
| PIC24FJ16MC102-I/ML |
| PIC24FJ16MC102T-E/ML |
| PIC24FJ16MC102T-I/ML |
| PIC24FJ256GA702-I/ML |
| PIC24FJ256GA702T-I/ML |
| PIC24FJ32GA002-E/ML |
| PIC24FJ32GA002-I/ML |
| PIC24FJ32GA002T-E/ML |
| PIC24FJ32GA002T-I/ML |
| PIC24FJ32GA002T-I/ML030 |
| PIC24FJ32GA002T-I/ML031 |
| PIC24FJ32GA002T-I/MLC06 |
| PIC24FJ32GA002T-I/MLC11 |
| PIC24FJ32GA004-E/ML |
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| PIC24FJ32GA004T-E/ML |
| PIC24FJ32GA004T-I/ML |

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| PIC24FJ32GA102T-I/ML |
| PIC24FJ32GA104-E/ML |
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| PIC24FJ32GA104-I/ML021 |
| PIC24FJ32GA104-I/ML023 |
| PIC24FJ32GA104-I/ML025 |
| PIC24FJ32GA104T-E/ML |
| PIC24FJ32GA104T-I/ML |
| PIC24FJ32GA104T-I/ML021 |
| PIC24FJ32GA104T-I/ML023 |
| PIC24FJ32GA104T-I/ML024 |
| PIC24FJ32GA104T-I/ML025 |
| PIC24FJ32GB002-I/ML |
| PIC24FJ32GB002T-I/ML |
| PIC24FJ32GB002T-I/MLC01 |
| PIC24FJ32GB004-I/ML |
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| PIC24FJ32MC102-I/ML |
| PIC24FJ32MC102T-I/ML |
| PIC24FJ32MC104-I/ML |
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| PIC24FJ48GA002T-I/ML |
| PIC24FJ48GA002T-I/MLB |
| PIC24FJ48GA004-E/ML |
| PIC24FJ48GA004-I/ML |
| PIC24FJ48GA004T-I/ML |
| PIC24FJ48GA004T-I/ML022 |
| PIC24FJ64GA002-E/ML |
| PIC24FJ64GA002-I/ML |
| PIC24FJ64GA002-I/ML022 |
| PIC24FJ64GA002T-E/ML |
| PIC24FJ64GA002T-I/ML |
| PIC24FJ64GA002T-I/ML022 |
| PIC24FJ64GA002T-I/MLC03 |
| PIC24FJ64GA004-E/ML |
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| PIC24FJ64GA004-I/MLB4 |
| PIC24FJ64GA004-I/MLC13 |
| PIC24FJ64GA004T-I/ML |
| PIC24FJ64GA004T-I/MLC13 |
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| PIC24FJ64GA102T-I/ML |

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| PIC24FJ64GA104T-I/ML |
| PIC24FJ64GA202-E/MM |
| PIC24FJ64GA202-I/MM |
| PIC24FJ64GA202T-I/MM |
| PIC24FJ64GA204-E/ML |
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| PIC24FJ64GA204T-I/ML |
| PIC24FJ64GA702-I/ML |
| PIC24FJ64GA702T-I/ML |
| PIC24FJ64GB002-I/ML |
| PIC24FJ64GB002T-I/ML |
| PIC24FJ64GB004-I/ML |
| PIC24FJ64GB004T-I/ML |
| PIC24FJ64GB202-E/MM |
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| PIC24FJ64GB202T-I/MM |
| PIC24FJ64GB204-E/ML |
| PIC24FJ64GB204-I/ML |
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| PIC24FV16KA302-I/ML |
| PIC24FV16KA302T-I/ML |
| PIC24FV16KA304-I/ML |
| PIC24FV16KA304T-I/ML |
| PIC24FV16KM102-I/ML |
| PIC24FV16KM202-E/ML |
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| PIC24FV16KM202T-I/ML |
| PIC24FV16KM204-I/ML |
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| PIC24FV32KA302T-I/ML |
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| PIC24FV32KA304T-I/ML |
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| PIC24HJ128GP202-I/MM |
| PIC24HJ128GP202T-E/MM |
| PIC24HJ128GP202T-I/MM |
| PIC24HJ128GP204-E/ML |
| PIC24HJ128GP204-I/ML |
| PIC24HJ128GP204T-E/ML |
| PIC24HJ128GP204T-I/ML |
| PIC24HJ128GP502-E/MM |
| PIC24HJ128GP502-H/MM |
| PIC24HJ128GP502-I/MM |

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| PIC24HJ128GP502T-H/MM |
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| PIC24HJ16GP304-H/ML |
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| PIC24HJ16GP304T-E/ML |
| PIC24HJ16GP304T-I/ML |
| PIC24HJ32GP202-E/MM |
| PIC24HJ32GP202-H/MM |
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| PIC24HJ32GP202T-I/MM |
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| PIC24HJ32GP204T-E/ML |
| PIC24HJ32GP204T-I/ML |
| PIC24HJ32GP302-E/MM |
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| PIC24HJ32GP302T-E/MM |
| PIC24HJ32GP302T-I/MM |
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| PIC24HJ32GP304T-E/ML |
| PIC24HJ32GP304T-I/ML |
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| PIC24HJ64GP202-I/MM |
| PIC24HJ64GP202T-E/MM |
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| PIC24HJ64GP204-E/ML |
| PIC24HJ64GP204-I/ML |
| PIC24HJ64GP204T-E/ML |
| PIC24HJ64GP204T-I/ML |
| PIC24HJ64GP502-E/MM |
| PIC24HJ64GP502-H/MM |
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| PIC24HJ64GP502T-E/MM |
| PIC24HJ64GP502T-H/MM |
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| PIC24HJ64GP504-I/ML |

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| PIC32MX130F064D-V/ML |
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| PIC32MX150F128B-I/ML |

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| PIC32MX150F128B-V/ML |
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| PIC32MX154F128BT-V/MM |
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| PIC32MX154F128DT-I/ML |
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| PIC32MX154F128D-V/ML |
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| PIC32MX220F032B-V/ML |
| PIC32MX220F032D-50I/ML |

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| PIC32MX250F128B-V/ML |
| PIC32MX250F128D-50I/ML |
| PIC32MX250F128D-I/ML |
| PIC32MX250F128DT-50I/ML |
| PIC32MX250F128DT-I/ML |
| PIC32MX250F128DT-I/ML026 |
| PIC32MX250F128DT-V/ML |
| PIC32MX250F128D-V/ML |
| PIC32MX254F128B-I/MM |
| PIC32MX254F128BT-I/MM |
| PIC32MX254F128BT-V/MM |
| PIC32MX254F128B-V/MM |
| PIC32MX254F128D-I/ML |
| PIC32MX254F128DT-I/ML |
| PIC32MX254F128DT-V/ML |
| PIC32MX254F128D-V/ML |
| PIC32MX270F256D-50I/ML |
| PIC32MX270F256D-I/ML |
| PIC32MX270F256DT-50I/ML |
| PIC32MX270F256DT-I/ML |
| PIC32MX270F256DT-V/ML |
| PIC32MX270F256D-V/ML |
| PIC32MX274F256B-I/MM |
| PIC32MX274F256BT-I/MM |
| PIC32MX274F256BT-V/MM |
| PIC32MX274F256B-V/MM |
| PIC32MX274F256D-I/ML |
| PIC32MX274F256DT-I/ML |

| |
|-----------------------|
| PIC32MX274F256DT-V/ML |
| PIC32MX274F256D-V/ML |
| SSC7150-ML-AB0 |
| SSC7150-ML-AB0-TR |
| SSC7150-ML-AB1 |
| SSC7150-ML-AB1-TR |
| UTC2000/MG |
| UTC2000-E/MG |
| UTC2000-I/MG |
| UTC2000T/MG |
| UTC2000T-E/MG |
| UTC2000T-I/MG |



MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN#: LIAL-21URFI599

Date

May 02, 2018

Qualification of MMT as an additional assembly site for selected products of 0.25um, 0.18um TSMC, 70nm SMIC, Vanguard, 120K, 130K, 150K, 160K, 165K, 200K and 290K wafer technologies in 44L, 28 QFN-S, 20L, 16L and 28L QFN packages.



MICROCHIP

Purpose Qualification of MMT as an additional assembly site for selected products of 0.25um, 0.18um TSMC, 70nm SMIC, Vanguard,120K,130K, 150K, 160K, 165K, 200K and 290K wafer technologies in 44L, 28 QFN-S, 20L,16L and 28L QFN packages..

CN ES176236-24916

QUAL ID Q18048

MP CODE TLAH14T3XRXF

Part No. DSPIC33EP64GS504-E/ML

Bonding No. BDM-001750 Rev. A

CCB NO.: 3223, 3223.001-3223.007

Package

Type 44L QFN

Package size 8x8x0.9 mm

Die thickness 11 mils

Die size 173.90 x 148.80 mils

Lead Frame

Paddle size 272 x 272 mils

Material C194

Surface Bare Cu

Process Etched

Lead Lock No

Part Number 10104411

Treatment Roughened

Material

Epoxy 3280

Wire Au

Mold Compound G700LTD

Plating Composition Matte Tin



Manufacturing Information

| Assembly Lot No. | Wafer Lot No.. | Date Code |
|-------------------|-------------------|-----------|
| MMT-185001202.000 | TC03918364705.200 | 1810S80 |
| MMT-185001678.000 | TC03918364705.210 | 181001R |
| MMT-185001679.000 | TC03918364705.200 | 181001S |

Result

Pass Fail _____

44L QFN (8x8x0.9 mm) assembled by MMT pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020D standard.

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS | Result | Remarks |
|---|---|---------------------------|----------------|--------|--------|---------|
| Moisture/Reflow Sensitivity Classification Test (At MSL Level 1) | 85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020D) | IPC/JEDEC C J-STD-020C | 135 | 0/135 | Pass | |

| | | | | | | |
|--|--|-------------|--------|-------|------|--------------|
| Precondition Prior Perform Reliability Tests (At MSL Level 1) | Electrical Test :+25°C and 125°C System: J750 | JESD22-A113 | 693(0) | 693 | Pass | Good Devices |
| | Bake 150°C, 24 hrs System: CHINEE | | | 693 | | |
| | 85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH | | | 693 | | |
| | 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243 | | | 693 | | |
| | Electrical Test ::+25°C,85°C and 125°C System: J750 | | | 0/693 | | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|----------------------------|--|---------------------|----------------|------------------|------------------|---|
| Temp Cycle | Stress Condition: 65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Electrical Test: + 85°C and 125°C System: J750 | JESD22-A104 | 231(0) | 231 0/231 | Pass | Parts had been pre-conditioned at 260°C |
| | Bond Strength: Wire Pull (>2.5 grams) Bond Shear (>15.00 grams) | | | | 15 (0) 15 (0) | 0/15 0/15 |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|----------------------------|--|---------------------|----------------|------------------|--------|---|
| HAST | Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 3.6 Volts, 1.98V System: HAST 6000X Electrical Test: +25°C, 85°C and 125°C System: J750 | JESD22- A110 | 231(0) | 231 0/231 | Pass | Parts had been pre-conditioned at 260°C 77 units / lot |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|--|--|---------------------|----------------|--------------------------|--------|---|
| UNBIASED-HAST | Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X | JESD22- A118 | 231(0) | 231 | Pass | Parts had been pre-conditioned at 260°C |
| | Electrical Test: +25°C System: J750 | | | 0/231 | | 77 units / lot |
| High Temperature Storage Life | Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB | JESD22- A103 | 45(0) | 45 | Pass | 45 units / lot |
| | Electrical Test : +25°C,85°C and 125°C System: J750 | | | 0/45 | | |
| Solderability Temp 215°C | Steam Aging: Temp 93°C,8Hrs System: SAS-3000 Solder Dipping: Solder Temp.215°C Solder material: SnPb Sn63,Pb37 System: ERSA RA 2200D Visual Inspection: External Visual Inspection | JESD22B -102E | 22 (0) | 22 22 0/22 | Pass | |
| Solderability Temp 245°C | Steam Aging: Temp 93°C,8Hrs System: SAS-3000 Solder Dipping:Solder Temp.245°C Solder material:Pb Free Sn 95.5Ag3.9 Cu0.6 System: ERSA RA 2200D Visual Inspection: External Visual Inspection | JESD22B -102E | 22 (0) | 22 22 0/22 | Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|--------------------------------|--|----------------------|-----------------|---------|--------|---------|
| Physical Dimensions | Physical Dimension, 10 units from 1 lot | JESD22- B100/B108 | 30(0) Units | 0/30 | Pass | |
| Bond Strength | Wire Pull (> 2.5 grams) | M2011 | 30 (0) Wires | 0/30 | Pass | |
| Data Assembly | Bond Shear (>15.00 grams) | JESD 22-B116 | 30 (0) bonds | 0/30 | Pass | |