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Product Change Notification - JAON-04FCXY806

Date: 18 Feb 2015

Notification subject: CCB 1491 Final Notice: Qualification of G700LTD molding compound and 8600 die attach epoxy for selected DFN, TDFN, UDFN and VDFN packages at NSEB site.

Notification text: **PCN Status:**
Final notification

Microchip Parts Affected:

See attachments of affected catalog part numbers (CPN) labeled as...
PCN_JAON-04FCXY806_Affected_CPN.xls
PCN_JAON-04FCXY806_Affected_CPN.pdf

Description of Change:

Qualification of G700LTD molding compound and 8600 die attach epoxy for 6L DFN (2x2x0.9mm), 8L DFN (2x3x0.9mm), 8L DFN (4x4x0.9mm), 10L DFN (3x3x0.9mm), 8L TDFN (2x3x0.8mm), 8L UDFN (2x3x0.5mm), 10L UDFN (3x3x0.5mm), 8L VDFN (4x4x1.0mm) and 8L VDFN (5x5x1.0mm) packages at NSEB assembly site.

Pre Change:

G770HCD molding compound and 8200T die attach epoxy

Post Change:

G700LTD molding compound and 8600 die attach epoxy

Impacts to Data Sheet:

None

Reason for Change:

To improve manufacturability by qualifying molding compound and die attach material.

Change Implementation Status:

In Progress

Estimated First Ship Date:

February 28, 2015 (date code: 1509)

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

Markings to Distinguish Revised from Unrevised Devices:

Traceability code

Revision History:

February 18, 2015: Issued final notification.

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_JAON-04FCXY806_Qual Report.pdf](#)
[PCN_JAON-04FCXY806_Affected_CPN.pdf](#)
[PCN_JAON-04FCXY806_Affected_CPN.xls](#)

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MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: JAON-04FCXY806

**Date
September 23, 2014**

Qualification of G700LTD mold compound and 8600 die attach for 8L DFN-S (6x5x0.9mm) package at NSEB (UTL) assembly site. The 6L DFN (2x2x0.9mm), 8L DFN (2x3x0.9mm), 8L DFN (4x4x0.9mm), 10L DFN (3x3x0.9mm), 8L TDFN (2x3x0.8mm), 8L UDFN (2x3x0.5mm), 10L UDFN (3x3x0.5mm), 8L VDFN (4x4x1.0mm) and 8L VDFN (5x5x1.0mm) packages will qualify by similarity at NSEB assembly site.

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose Qualification of G700LTD mold compound and 8600 die attach for 8L DFN-S (6x5x0.9mm) package at NSEB (UTL) assembly site. The 6L DFN (2x2x0.9mm), 8L DFN (2x3x0.9mm), 8L DFN (4x4x0.9mm), 10L DFN (3x3x0.9mm), 8L TDFN (2x3x0.8mm), 8L UDFN (2x3x0.5mm), 10L UDFN (3x3x0.5mm), 8L VDFN (4x4x1.0mm) and 8L VDFN (5x5x1.0mm) packages will qualify by similarity at NSEB assembly site.

CN BC140755
QUAL ID Q14097
MP CODE DECR27A6XA00
Part No. 25LC1024-I/MF
Bonding No. BDE-002669 Rev. 01
CCB No. 1336.02

Package

Type 8L DFN-S
Package size 6x5x0.9 mm
Die thickness 11 mils
Die size 122.1 x 149.9 mils

Lead Frame

Paddle size 173 x 173 mils
Material EFTEC-64T
Surface Ag ring
Process Etched
Part Number FR0221

Die attach material

Epoxy 8600
Wire Au wire
Mold Compound G700LTD
Plating Composition Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

| Assembly Lot No. | Wafer Lot No. | Date Code |
|-------------------|-------------------|-----------|
| NSEB151100198.000 | TMPE214479184.A00 | 1424H24 |
| NSEB151100199.000 | TMPE214479184.A00 | 1424H28 |
| NSEB151100200.000 | TMPE214479184.A00 | 1424H29 |

Result

Pass Fail _____

8L DFN (6x5x0.9 mm) assembled by UTL (NSEB) 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.

Note: Found Puncture damage after Temp Cycle 500 refer FA#14-08141 See attachment4

Prepared By:  Date: September 23, 2014 (Sr. Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By:  Date: September 23, 2014 (Reliability Manager)

(Mr. Somnuek Thongprasert)

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- 020D | 135 | 0/135 | Pass | |

| | | | | | | |
|--|--|-----------------|--------|-------|------|-----------------|
| Precondition Prior Perform Reliability Tests (At MSL Level 1) | Electrical Test :+25°C and 85°C System: NEXTEST_PT | JESD22- A113 | 693(0) | 693 | | 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 and 85°C System: NEXTEST_PT | | | 0/693 | Pass | |

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 | JESD22- A104 | | 231 | | Parts had been pre-conditioned at 260°C |
| | Electrical Test: + 85°C System: NEXTEST_PT | | 231(0) | 0/231 | Pass | 77 units / lot |
| | Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams) | | 15 (0) | 0/15 | Pass | |
| | | | 15 (0) | 0/15 | Pass | |
| UNBIASED-HAST | Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X | JESD22- A118 | | 231 | | Parts had been pre-conditioned at 260°C |
| | Electrical Test: +25°C System: NEXTEST_PT | | 231(0) | 0/231 | Pass | 77 units / lot |
| HAST | Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X | JESD22- A110 | | 231 | | Parts had been pre-conditioned at 260°C |
| | Electrical Test: +25°C and 85°C System: NEXTEST_PT | | 231(0) | 0/231 | Pass | 77 units / lot |
| High Temperature Storage Life | Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB | JESD22- A103 | | 45 | | 45 units |
| | Electrical Test :+25°C and 85°C System: NEXTEST_PT | | 45(0) | 0/45 | Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|--|--|---------------------|-----------------|----------------------|--------|---------|
| 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 | |
| Bond Strength Data Assembly | Wire Pull (> 2.5 grams) | M2011 | 30 (0) Wires | 0/30 | Pass | |
| | Bond Shear (>15.00 grams) | JESD22-B116 | 30 (0) bonds | 0/30 | Pass | |

| PCN_JAON-04FCXY806 |
|--------------------|
| CATALOG_PART_NBR |
| 11AA010T-I/MNY |
| 11AA020T-I/MNY |
| 11AA040T-I/MNY |
| 11AA080T-I/MNY |
| 11AA160T-I/MNY |
| 11AA161T-I/MNY |
| 11LC010T-E/MNY |
| 11LC010T-I/MNY |
| 11LC020T-E/MNY |
| 11LC020T-I/MNY |
| 11LC040T-E/MNY |
| 11LC040T-I/MNY |
| 11LC080T-E/MNY |
| 11LC080T-I/MNY |
| 11LC160T-E/MNY |
| 11LC160T-I/MNY |
| 11LC161T-E/MC |
| 11LC161T-E/MNY |
| 11LC161T-I/MNY |
| 24AA00T-I/MC |
| 24AA00T-I/MNY |
| 24AA014HT-I/MNY |
| 24AA014-I/MC |
| 24AA014T-I/MC |
| 24AA014T-I/MNY |
| 24AA01HT-I/MNY |
| 24AA01T-I/MC |
| 24AA01T-I/MNY |
| 24AA024HT-I/MNY |
| 24AA024-I/MC |
| 24AA024T-I/MC |
| 24AA024T-I/MNY |
| 24AA025-I/MC |
| 24AA025T-I/MC |
| 24AA025T-I/MNY |
| 24AA02HT-I/MNY |
| 24AA02T-I/MC |
| 24AA02T-I/MNY |
| 24AA04HT-I/MNY |
| 24AA04-I/MC |
| 24AA04T-E/MC |
| 24AA04T-I/MC |
| 24AA04T-I/MNY |
| 24AA08HT-I/MNY |
| 24AA08-I/MC |

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| 24AA08T-I/MNY |
| 24AA128T-I/MNY |
| 24AA16HT-I/MNY |
| 24AA16-I/MC |
| 24AA16-I/MC16KVAO |
| 24AA16T-E/MNY |
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| 24AA32AFT-I/MNY |
| 24AA32AT-I/MC |
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| 24AA32AT-I/MNY |
| 24AA52-I/MC |
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| 24LC32AFT-E/MNY |
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| 24LC64T-I/MNY |
| 24LCS52-I/MC |
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| 24LCS52T-I/MNY |
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| 24VL024HT/MNY |
| 24VL024T/MNY |
| 24VL025T/MNY |
| 25AA010AT-I/MC |
| 25AA010AT-I/MNY |
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| 25AA040AT-I/MC |
| 25AA040AT-I/MNY |

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| 25AA080C-I/MNY |
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| 25AA080DT-I/MNY |
| 25AA160C-I/MNY |
| 25AA160CT-I/MNY |
| 25AA160D-I/MNY |
| 25AA160DT-E/MNY |
| 25AA160DT-I/MNY |
| 25AA160DT-I/MNY-PR |
| 25AA320AT-I/MNY |
| 25AA320AT-I/MNY100 |
| 25AA320AT-I/MNY101 |
| 25AA320AT-I/MNYB23 |
| 25AA640AT-E/MNY |
| 25AA640AT-I/MNY |
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| 25LC320AT-I/MNY16KVAO |
| 25LC640AT-E/MNY |
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| 25LC640AT-I/MNY |
| 34AA02T-E/MNY |
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| 34AA02T-I/MNYB22 |
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| 34AA04T-I/MNY |
| 34LC02T-E/MNY |
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| 34LC02T-I/MNY |
| 34LC02T-I/MNY16KVAO |
| 34VL02T/MNY |
| 34VL02T/MNYC21 |
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| 93AA46BT-I/MC |
| 93AA46BT-I/MNY |
| 93AA46CT-I/MC |
| 93AA46CT-I/MNY |
| 93AA56AT-I/MC |
| 93AA56AT-I/MNY |
| 93AA56BT-I/MC |
| 93AA56BT-I/MNY |
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| 93AA56CT-I/MNY |
| 93AA66AT-I/MC |
| 93AA66AT-I/MNY |
| 93AA66BT-I/MC |
| 93AA66BT-I/MNY |
| 93AA66CT-I/MC |
| 93AA66CT-I/MNY |
| 93AA76CT-I/MC |
| 93AA76CT-I/MNY |
| 93AA86CT-I/MC |
| 93AA86CT-I/MNY |
| 93C46AT-E/MNY |
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| 93C46AT-I/MNY |
| 93C46BT-E/MNY |
| 93C46BT-I/MC |
| 93C46BT-I/MNY |

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|----------------|
| 93C46CT-E/MNY |
| 93C46CT-I/MC |
| 93C46CT-I/MNY |
| 93C56AT-E/MNY |
| 93C56AT-I/MC |
| 93C56AT-I/MNY |
| 93C56BT-E/MNY |
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| 93C56BT-I/MNY |
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| 93C66CT-E/MNY |
| 93C66CT-I/MC |
| 93C66CT-I/MNY |
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| 93C76CT-I/MC |
| 93C76CT-I/MNY |
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| 93C86CT-I/MNY |
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| 93LC56AT-E/MNY |
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| 93LC56CT-E/MC |
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| 93LC56CT-I/MNY |
| 93LC66AT-E/MNY |

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|-------------------|
| 93LC66AT-I/MC |
| 93LC66AT-I/MNY |
| 93LC66BT-E/MNY |
| 93LC66BT-I/MC |
| 93LC66BT-I/MNY |
| 93LC66CT-E/MNY |
| 93LC66CT-I/MC |
| 93LC66CT-I/MNY |
| 93LC76CT-E/MNY |
| 93LC76CT-I/MC |
| 93LC76CT-I/MNY |
| 93LC86CT-E/MNY |
| 93LC86CT-I/MC |
| 93LC86CT-I/MNY |
| DN2625DK6-G |
| MCP1256-E/MF |
| MCP1256T-E/MF |
| MCP1257-E/MF |
| MCP1257T-E/MF |
| MCP1258-E/MF |
| MCP1258T-E/MF |
| MCP1259-E/MF |
| MCP1259T-E/MF |
| MCP14A0051T-E/MAY |
| MCP14A0052T-E/MAY |
| MCP14A0151T-E/MAY |
| MCP14A0152T-E/MAY |
| MCP1603-120I/MC |
| MCP1603-150I/MC |
| MCP1603-180I/MC |
| MCP1603-250I/MC |
| MCP1603-330I/MC |
| MCP1603-ADJI/MC |
| MCP1603T-120I/MC |
| MCP1603T-150I/MC |
| MCP1603T-180I/MC |
| MCP1603T-250I/MC |
| MCP1603T-330I/MC |
| MCP1603T-ADJI/MC |
| MCP1623-I/MC |
| MCP1623T-I/MC |
| MCP1624-I/MC |
| MCP1624-I/MCAAA |
| MCP1624T-I/MC |
| MCP1624T-I/MCAAA |
| MCP16251T-I/MNY |
| MCP16252T-I/MNY |

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|--------------------|
| MCP1630-E/MC |
| MCP1630T-E/MC |
| MCP1630V-E/MC |
| MCP1630VT-E/MC |
| MCP16311T-E/MNY |
| MCP16312T-E/MNY |
| MCP1632-AAE/MC |
| MCP1632-BAE/MC |
| MCP1632T-AAE/MC |
| MCP1632T-BAE/MC |
| MCP16331T-E/MNY |
| MCP1640B-I/MC |
| MCP1640BT-I/MC |
| MCP1640C-I/MC |
| MCP1640CT-I/MC |
| MCP1640D-I/MC |
| MCP1640DT-I/MC |
| MCP1640-I/MC |
| MCP1640T-I/MC |
| MCP1642B-18I/MC |
| MCP1642B-30I/MC |
| MCP1642B-33I/MC |
| MCP1642B-50I/MC |
| MCP1642B-ADJI/MC |
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| MCP1642D-ADJI/MC |
| MCP1642DT-18I/MC |
| MCP1642DT-30I/MC |
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| MCP1642DT-50I/MC |
| MCP1642DT-ADJI/MC |
| MCP1643-I/MC |
| MCP1643T-I/MC |
| MCP1661T-E/MNY |
| MCP1662T-E/MNY |
| MCP1700T-1802E/MAY |
| MCP1700T-2502E/MAY |
| MCP1700T-2802E/MAY |
| MCP1700T-3002E/MAY |

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| MCP2003AT-E/MD |
| MCP2003AT-E/MDVAO |
| MCP2003-E/MD |
| MCP2003T-E/MD |
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| MCP2003T-E/MDV05 |
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| MCP2004AT-E/MD |
| MCP2004-E/MD |
| MCP2004T-E/MD |
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| MCP2021-330E/MD-AE2V07 |
| MCP2021-500E/MD |
| MCP2021-500E/MD-AE3VAO |
| MCP2021-500E/MDVAO |

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| MCP2021T-500E/MD |
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| MCP3422A5T-E/MC |
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| MCP4716A3T-E/MAY |
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| MCP4725A2T-E/MAY |
| MCP4725A3T-E/MAY |
| MCP4726A0T-E/MAY |
| MCP4726A1T-E/MAY |
| MCP4726A2T-E/MAY |
| MCP4726A3T-E/MAY |
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| MCP4801T-E/MC |
| MCP4811-E/MC |
| MCP4811T-E/MC |
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| MCP4911-E/MC |
| MCP4911T-E/MC |

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| MCP6033T-E/MC |
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| MCP6052T-E/MNY |
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| MCP6071T-E/MNY |
| MCP6072T-E/MNY |
| MCP621T-E/MNY |
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| MCP6232T-E/MNYVAO |
| MCP6241-E/MC |
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| MCP635-E/MF |
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| MCP6H91T-E/MNY |
| MCP6H92T-E/MNY |
| MCP6N11T-001E/MNY |
| MCP6N11T-002E/MNY |

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| MCP6V07-E/MD |
| MCP6V07T-E/MD |
| MCP6V08T-E/MNY |
| MCP6V12T-E/MNY |
| MCP6V26T-E/MNY |
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| MCP6V27T-E/MD |
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| MCP73113-06SI/MF |
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| MCP73832T-4ADI/MC |
| MCP73832T-5ACI/MC |
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| MCP73833-DZI/MF |
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| MCP79402T-I/MNY |
| MCP7940MT-I/MNY |
| MCP7940NT-I/MNY |
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| MCP79412T-I/MNY |
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| MCP9804T-E/MC |
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| MCP9805-BE/MC |

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| MCP98242-CE/MC |
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| MCP98242T-BE/MCBA3 |
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| PIC12F1501T-I/MC020 |
| PIC12F1501T-I/MC023 |

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| PIC12F1501T-I/MC030 |
| PIC12F1501T-I/MU |
| PIC12F508-E/MC |
| PIC12F508-I/MC |
| PIC12F508-I/MC075 |
| PIC12F508T-I/MC |
| PIC12F508T-I/MC075 |
| PIC12F508T-I/MCT46 |
| PIC12F509-E/MC |
| PIC12F509-I/MC |
| PIC12F509T-I/MC |
| PIC12F509T-I/MCVAO |
| PIC12F510-E/MC |
| PIC12F510-E/MCVAO |
| PIC12F510-I/MC |
| PIC12F510T-E/MC |
| PIC12F510T-I/MC |
| PIC12F519-E/MC |
| PIC12F519-I/MC |
| PIC12F519T-E/MC |
| PIC12F519T-I/MC |
| PIC12F519T-I/MC021 |
| PIC12F519T-I/MC024 |
| PIC12F519T-I/MC034 |
| PIC12F519T-I/MC045 |
| PIC12F529-I/MC |
| PIC12F609-E/MD |
| PIC12F609-I/MD |
| PIC12F609T-I/MD |
| PIC12F615-E/MD |
| PIC12F615-H/MD |
| PIC12F615-I/MD |
| PIC12F615T-I/MD |
| PIC12F615T-I/MD029 |
| PIC12F615T-I/MD056 |
| PIC12F629-E/MD |
| PIC12F629-I/MD |
| PIC12F629T-E/MD |
| PIC12F629T-I/MD |
| PIC12F635-I/MD |
| PIC12F635T-I/MD |
| PIC12F635T-I/MD070 |
| PIC12F675-E/MD |
| PIC12F675-I/MD |
| PIC12F675-I/MD176 |

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| PIC12F683-E/MD |
| PIC12F683-E/MD066 |
| PIC12F683-E/MD076 |
| PIC12F683-E/MD081 |
| PIC12F683-I/MD |
| PIC12F683T-E/MD |
| PIC12F683T-I/MD |
| PIC12HV609-E/MD |
| PIC12HV609-I/MD |
| PIC12HV609T-I/MD |
| PIC12HV615-E/MD |
| PIC12HV615-I/MD |
| PIC12HV615T-I/MD |
| PIC12LF1501-E/MC |
| PIC12LF1501-I/MC |
| PIC12LF1501-I/MC020 |
| PIC12LF1501T-E/MC |
| PIC12LF1501T-E/MU |
| PIC12LF1501T-I/MC |
| PIC12LF1501T-I/MC020 |
| PIC12LF1501T-I/MC021 |
| PIC12LF1501T-I/MU |
| PIC12LF1552T-E/MU |
| PIC12LF1552T-I/MU |
| TC1303A-AA0EMF |
| TC1303A-AA0EMFTR |
| TC1303A-RI1EMF |
| TC1303A-RI1EMFTR |
| TC1303A-SIOEMF |
| TC1303A-SIOEMFTR |
| TC1303A-UA0EMF |
| TC1303A-UA0EMFTR |
| TC1303A-VA0EMF |
| TC1303A-VA0EMFTR |
| TC1303A-ZA0EMF |
| TC1303A-ZA0EMFTR |
| TC1303A-ZIOEMF |
| TC1303A-ZIOEMFTR |
| TC1303A-ZPOEMF |
| TC1303A-ZPOEMFTR |
| TC1303A-ZS0EMF |
| TC1303A-ZS0EMFTR |
| TC1303B-1H0EMF |
| TC1303B-1H0EMFTR |
| TC1303B-1P0EMF |
| TC1303B-1P0EMFTR |
| TC1303B-AD0EMF |

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| TC1303B-AD0EMFTR |
| TC1303B-AG0EMF |
| TC1303B-AG0EMFTR |
| TC1303B-DF0EMF |
| TC1303B-DF0EMFTR |
| TC1303B-DG0EMF |
| TC1303B-DG0EMFTR |
| TC1303B-IA0EMF |
| TC1303B-IA0EMFTR |
| TC1303B-PA0EMF |
| TC1303B-PA0EMFTR |
| TC1303B-PD0EMF |
| TC1303B-PD0EMFTR |
| TC1303B-PF0EMF |
| TC1303B-PF0EMFTR |
| TC1303B-PG0EMF |
| TC1303B-PG0EMFTR |
| TC1303B-PI0EMF |
| TC1303B-PI0EMFTR |
| TC1303B-RD1EMF |
| TC1303B-RD1EMFTR |
| TC1303B-SA0EMF |
| TC1303B-SA0EMFTR |
| TC1303B-SD0EMF |
| TC1303B-SD0EMFTR |
| TC1303B-SE0EMF |
| TC1303B-SE0EMFTR |
| TC1303B-SH0EMF |
| TC1303B-SH0EMFTR |
| TC1303B-SIOEMF |
| TC1303B-SIOEMFTR |
| TC1303B-SPOEMF |
| TC1303B-SPOEMFTR |
| TC1303B-VA0EMF |
| TC1303B-VA0EMFTR |
| TC1303B-VS0EMF |
| TC1303B-VS0EMFTR |
| TC1303B-ZA0EMF |
| TC1303B-ZA0EMFTR |
| TC1303B-ZG0EMF |
| TC1303B-ZG0EMFTR |
| TC1303B-ZH0EMF |
| TC1303B-ZH0EMFTR |
| TC1303B-ZIOEMF |
| TC1303B-ZIOEMFTR |
| TC1303B-ZP0EMF |
| TC1303B-ZP0EMFTR |

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| TC1303B-ZS0EMF |
| TC1303B-ZS0EMFTR |
| TC1303C-1I0EMF |
| TC1303C-1I0EMFTR |
| TC1303C-PA0EMF |
| TC1303C-PA0EMFTR |
| TC1303C-PD0EMF |
| TC1303C-PIOEMF |
| TC1303C-PIOEMFTR |
| TC1303C-RD1EMF |
| TC1303C-RD1EMFTR |
| TC1303C-VPOEMF |
| TC1303C-VPOEMFTR |
| TC1303C-ZA0EMF |
| TC1303C-ZA0EMFTR |
| TC1303C-ZIOEMF |
| TC1303C-ZIOEMFTR |
| TC1303C-ZPOEMF |
| TC1303C-ZPOEMFTR |
| TC1303C-ZS0EMF |
| TC1303C-ZS0EMFTR |
| TC1304-VIOEMF |
| TC1304-VIOEMFTR |
| TC1304-VPOEMF |
| TC1304-VPOEMFTR |
| TC1304-ZA0EMF |
| TC1304-ZA0EMFTR |
| TC1304-ZIOEMF |
| TC1304-ZIOEMFTR |
| TC1304-ZPOEMF |
| TC1304-ZPOEMFTR |
| TC1304-ZS0EMF |
| TC1304-ZS0EMFTR |
| TC1313-1HOEMF |
| TC1313-1HOEMFTR |
| TC1313-1POEMF |
| TC1313-1POEMFTR |
| TC1313-DGOEMF |
| TC1313-DGOEMFTR |
| TC1313-PP0EMF |
| TC1313-PP0EMFTR |
| TC1313-RD1EMF |
| TC1313-RD1EMFTR |
| TC1313-VDOEMF |
| TC1313-VDOEMFTR |
| TC1313-ZA0EMF |
| TC1313-ZA0EMFTR |

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| TC1313-ZDOEMF |
| TC1313-ZDOEMFTR |
| TC1313-ZGOEMF |
| TC1313-ZGOEMFTR |
| TC1313-ZIOEMF |
| TC1313-ZIOEMFTR |
| TC1313-ZPOEMF |
| TC1313-ZPOEMFTR |
| TC1313-ZS0EMF |
| TC1313-ZS0EMFTR |
| TC6320K6-G |
| TC6320K6-G-D626 |