



Product Change Notification / JAON-22DHCK168

Date:

25-Nov-2021

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4910, 4910.001, 4910.002, 4910.003 and 4910.004 Initial Notice: Qualification of A194 lead frame as an additional lead frame material for selected products available in 40L UQFN (5x5x0.5mm), 28L UQFN (4x4x0.55mm), 20L UQFN (4x4x0.5mm), 16L UQFN (4x4x0.5mm), and 16L UQFN (3x3x0.5mm) packages.

Affected CPNs:

[JAON-22DHCK168_Affected_CPN_11252021.pdf](#)
[JAON-22DHCK168_Affected_CPN_11252021.csv](#)

Notification Text:

PCN Status:Initial Notification

PCN Type:Manufacturing Change

Microchip Parts Affected:Please open one of the files found in the Affected CPNs section.
Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change:Qualification of A194 lead frame as an additional lead frame material for selected products available in 40L UQFN (5x5x0.5mm), 28L UQFN (4x4x0.55mm), 20L UQFN (4x4x0.5mm), 16L UQFN (4x4x0.5mm), and 16L UQFN (3x3x0.5mm) packages.

Pre and Post Change Summary:

| | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|
| Date | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|

Method to Identify Change:Traceability code

Qualification Plan:Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:November 25, 2021: Issued initial notification.

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

Attachments:

[PCN_JAON-22DHCK168_Qual_Plan.pdf](#)

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

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MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: JAON-22DHCK168

Date:

November 10, 2021

Qualification of A194 lead frame as an additional lead frame material for selected products available in 40L UQFN (5x5x0.5mm) package. The qualification of A194 lead frame as an additional lead frame material for selected products available 28L UQFN (4x4x0.55mm), 20L UQFN (4x4x0.5mm), 16L UQFN (4x4x0.5mm), and 16L UQFN (3x3x0.5mm) packages will qualify by similarity (QBS). This is an automotive Q100 Grade 1 qualification.

Purpose: Qualification of A194 lead frame as an additional lead frame material for selected products available in 40L UQFN (5x5x0.5mm) package. The qualification of A194 lead frame as an additional lead frame material for selected products available 28L UQFN (4x4x0.55mm), 20L UQFN (4x4x0.5mm), 16L UQFN (4x4x0.5mm), and 16L UQFN (3x3x0.5mm) packages will qualify by similarity (QBS).

| | | |
|-------------------|---|---|
| Misc. | Assembly site | MMT |
| | BD Number | BDM-002381/B |
| | MP Code (MPC) | LEDC14S5XAXX |
| | Part Number (CPN) | PIC16F1777-E/MV |
| | MSL information | 1 |
| | Assembly Shipping Media (T/R, Tube/Tray) | Tube |
| | Base Quantity Multiple (BQM) | 73 |
| | Reliability Site | MTAI |
| | CCB No. | 4910, 4910.001, 4910.002, 4910.003 and 4910.004 |
| Lead-Frame | Paddle size | 154x154 |
| | Material | A194 |
| | DAP Surface Prep | Bare Cu |
| | Treatment | BOT |
| | Process | Etched |
| | Lead-lock | No |
| | Part Number | 10104014 |
| | Lead Plating | Matte Tin |
| | Strip Size | 250x70mm |
| | Strip Density | 440 pads/strip |
| Bond Wire | Material | Au |
| Die Attach | Part Number | 8600 |
| | Conductive | Yes |
| MC | Part Number | G700LTD |
| PKG | PKG Type | UQFN |
| | Pin/Ball Count | 40 |
| | PKG width/size | 5x5x0.5mm |

| Test Name | Conditions | Reliability Stress Read Point | Pre & Post Reliability Stress Test Temperature | Sample Size | Min. Qty of Spares per Lot (should be properly) | Qty of Lots | Total Units | Fail Accept Qty | Est. Dur. Days | ATE Test Site | REL Test Site | Special Instructions |
|--|---|--------------------------------------|--|---|---|-------------|-------------|--------------------|----------------|---------------|---------------|---|
| Standard Pb-free Solderability | J-STD-002D ; Perform 8 hours of steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing. Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages. | | | 22 | 5 | 1 | 27 | >95% lead coverage | 5 | | MTAI | Standard Pb-free solderability is the requirement. SnPb solderability (backward solderability- SMD reflow soldering) is required for any plating related changes and highly recommended for other package BOM changes. |
| Backward Solderability | J-STD-002D ; Perform 8 hour steam aging for Matte tin finish and 1 hr steam aging for NiPdAu finish prior to testing. Backward: Matte tin/ NiPdAu finish, SnPb solder, wetting temp 215°C for SMD. | | | 22 | 5 | 1 | 27 | >95% lead coverage | 5 | | MTAI | |
| Wire Bond Pull - WBP | Mil. Std. 883-2011 | | | 5 | 0 | 1 | 5 | 0 fails after TC | 5 | | MMT | 30 bonds from a min. 5 devices. |
| Wire Bond Shear - WBS | CDF-AEC-Q100-001 | | | 5 | 0 | 1 | 5 | 0 | 5 | | MMT | 30 bonds from a min. 5 devices. |
| Physical Dimensions | Measure per JESD22 B100 and B108 | | | 10 | 0 | 3 | 30 | 0 | 5 | | MMT | |
| External Visual | Mil. Std. 883-2009/2010 | | | All devices prior to submission for qualification testing | 0 | 3 | ALL | 0 | 5 | | | |
| HTSL (High Temp Storage Life) | JESD22-A103 +175°C | Grade 1: 500 hrs (+175°C) | Grade 1: +25°C, +85°C, +125°C | 45 | 5 | 1 | 50 | 0 | 21 - 83 | MTAI | MTAI | Spares should be properly identified. |
| Preconditioning - Required for surface mount devices | J-STD-020JESD22-A113+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type. MSL-1/260C | | Grade 1: +25°C, +85°C, +125°C | 231 | 15) | 3 | 738 | 0 | 15 | MTAI | MTAI | Spares should be properly identified. 77 parts from each lot to be used for HAST, uHAST, |
| HAST | JESD22-A101 or A110 +130°C/85% RH for 96 hrs | Grade 1: 96 hrs (+130°C/85% RH) | Grade 1: +25°C, +85°C, +125°C | 77 | 5 | 3 | 246 | 0 | 10 - 14 | MTAI | MTAI | Spares should be properly identified. Use the parts which have gone through Pre-conditioning. |
| UHAST | JESD22-A102, A118, or A101 +130°C/85% RH for 96 hrs | Grade 1: 96 hrs (+130°C/85% RH) | Grade 1: +25°C | 77 | 5 | 3 | 246 | 0 | 10 | MTAI | MTAI | Spares should be properly identified. Use the parts which have gone through Pre-conditioning. |
| Temp Cycle | JESD22-A104 -65°C to +150°C | Grade 1: 500 cycles (-65°C to 150°C) | Grade 1: +85°C, +125°C | 77 | 5 | 3 | 246 | 0 | 15 - 60 | MTAI | MTAI | Spares should be properly identified. Use the parts which have gone through Pre-conditioning. |

Affected Catalog Part Numbers (CPN)

PIC16LF1902-E/MV
PIC16LF1903-E/MV
PIC16LF1902-I/MV
PIC16LF1903-I/MV
PIC16LF1902T-I/MV020
PIC16LF1902T-I/MV021
PIC16LF1902T-I/MV
PIC16LF1903T-I/MV
PIC16LF1903T-E/MV
PIC16LF1906-I/MV
PIC16LF1904-I/MV
PIC16LF1907-I/MV
PIC16LF1906T-I/MV
PIC16LF1904T-I/MV022
PIC16LF1904T-I/MV
PIC16LF1907T-I/MV
PIC16LF1566-E/MV
PIC16LF1567-E/MV
PIC16LF1566-I/MV
PIC16LF1567-I/MV
PIC16LF1567T-I/MV
PIC18F23K20-I/MV
PIC18F46K20-E/MV
PIC18F46K20-I/MV
PIC16F727-I/MV
PIC16F726-I/MV
PIC16F1937-E/MV
PIC16F1937-I/MV
PIC16F1937T-I/MV
PIC16F1936-E/MV
PIC16F1936-I/MV
PIC16F1936T-I/MV
PIC16F1934-I/MV
PIC16F1934T-I/MV
PIC16LF1937-I/MV
PIC16LF1937T-I/MV
PIC16LF1936-I/MV
PIC16LF1936T-I/MV
PIC16F723A-I/MV
PIC16LF723A-I/MV
PIC16LF722A-I/MV
PIC18F45K20-I/MV
PIC18F45K20T-I/MV
PIC16F1827-E/MV
PIC16F1827-I/MV039
PIC16F1827-I/MV040

JAPON-22DHCK168 - CCB 4910, 4910.001, 4910.002, 4910.003 and 4910.004 Initial Notice: Qualification of A194 lead frame as an additional lead frame material for selected products available in 40L UQFN (5x5x0.5mm), 28L UQFN (4x4x0.55mm), 20L UQFN (4x4x0.5mm), 16L UQFN (4x4x0.5mm), and 16L UQFN (3x3x0.5mm) packages.

PIC16F1827-I/MV

PIC16F1827T-I/MV039

PIC16F1827T-I/MV040

PIC16F1827T-I/MV

PIC16F1826-E/MV

PIC16F1826-I/MV

PIC16F1826T-I/MV

PIC16LF1827-I/MV

PIC16LF1827T-I/MV

PIC16LF1826-I/MV

PIC16LF1826T-I/MV

PIC16F1933-E/MV

PIC16F1933-I/MV

PIC16F1933T-I/MV

PIC16LF1933-I/MV

PIC16F1939-E/MV

PIC16F1939-E/MVVAO

PIC16F1939-I/MV

PIC16F1939T-I/MV

PIC16F1939T-E/MV

PIC16F1939T-E/MVVAO

PIC16F1938-E/MV

PIC16F1938-I/MV

PIC16F1938T-I/MV

PIC16F1938T-I/MVPAX

PIC16LF1939-E/MV

PIC16LF1939-I/MV

PIC16LF1939T-I/MV

PIC16LF1938-E/MV

PIC16LF1938-I/MV

PIC16LF1938T-I/MV

PIC16LF1938T-I/MVC03

PIC16LF1938T-I/MVPAX

PIC16LF1938T-E/MV

PIC18F45K22-E/MV

PIC18F45K22-I/MV

PIC18F45K22T-I/MV

PIC18LF45K22-E/MV

PIC18LF45K22-I/MV

PIC18LF45K22T-I/MV

PIC16F1823-E/JQ

PIC16F1823-I/JQ

PIC16F1823T-E/JQ

PIC16LF1823-I/JQ

PIC18F44K22-I/MV

PIC18F44K22T-I/MV

PIC18LF44K22-E/MV

PIC18LF44K22-I/MV

PIC18F24K22-E/MV

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PIC18F24K22-I/MV

PIC18F24K22T-I/MV

PIC18LF24K22-E/MV

PIC18LF24K22-I/MV

PIC18LF24K22T-I/MV

PIC18F43K22-I/MV

PIC18F43K22T-I/MV

PIC18LF43K22-I/MV

PIC18F23K22-I/MV

PIC18F23K22T-I/MV

PIC18F46K22-E/MV

PIC18F46K22-I/MV

PIC18F46K22T-I/MV

PIC18F46K22T-E/MV028

PIC18F46K22T-E/MV029

PIC18F46K22T-E/MV030

PIC18F46K22T-E/MV032

PIC18F46K22T-E/MV

PIC18LF46K22-E/MV

PIC18LF46K22-I/MV

PIC18LF46K22T-I/MV022

PIC18LF46K22T-I/MV

HA7621T-I/MV

PIC16F1784-E/MV

PIC16F1787-E/MV

PIC16F1784-I/MV

PIC16F1787-I/MV

PIC16F1784T-I/MV

PIC16F1784T-E/MV

PIC16F1784T-E/MVVAO

PIC16LF1784-E/MV

PIC16LF1787-I/MV

PIC16LF1787T-I/MV

PIC16F1828-E/GZVAO

PIC16F1828T-E/GZVAO

PIC16F1824-E/JQ

PIC16F1824-I/JQ

PIC16F1824T-E/JQ

PIC16LF1824-E/JQ

PIC16LF1824-I/JQ

PIC16LF1824T-E/JQVAO

PIC16F1825-E/JQ

PIC16F1825-I/JQ

PIC16F1825-I/JQVAO

PIC16F1825T-I/JQ

PIC16F1825T-I/JQVAO

PIC16F1825T-E/JQ

PIC16F1825T-E/JQVAO

PIC16LF1825-E/JQ

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PIC16F1516-E/MV

PIC16F1518-E/MV

PIC16F1517-E/MV

PIC16F1519-E/MV

PIC16F1519-E/MVVAO

PIC16F1516-I/MV

PIC16F1518-I/MV

PIC16F1517-I/MV

PIC16F1519-I/MV

PIC16F1516T-I/MV

PIC16F1518T-I/MV

PIC16F1518T-I/MVVAO

PIC16F1517T-I/MV

PIC16F1519T-I/MV

PIC16F1519T-E/MVVAO

PIC16LF1516-E/MV

PIC16LF1518-E/MV

PIC16LF1517-E/MV

PIC16LF1516-I/MV

PIC16LF1518-I/MVC03

PIC16LF1518-I/MV

PIC16LF1516-I/MVVAO

PIC16LF1518-I/MVVAO

PIC16LF1517-I/MV

PIC16LF1519-I/MV

PIC16LF1516T-I/MV

PIC16LF1518T-I/MVC03

PIC16LF1518T-I/MV

PIC16LF1516T-I/MVVAO

PIC16LF1518T-I/MVVAO

PIC16LF1517T-I/MV

PIC16LF1519T-I/MV

PIC16F1847-E/MV

PIC16F1847-I/MV

PIC16F1847T-I/MV

PIC16LF1847-E/MV

PIC16LF1847-I/MV

PIC16LF1847T-I/MV

PIC16F1509-E/GZVAO

PIC16F1509T-E/GZVAO

PIC16F1503T-E/MVVAO

PIC16LF1503-E/MVVAO

PIC16LF1503T-E/MVVAO

PIC16F1455-E/JQ

PIC16F1454-I/JQ

PIC16F1455-I/JQ

PIC16F1454T-I/JQ

PIC16LF1454-I/JQ

PIC16LF1455-I/JQ

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PIC16LF1454T-I/JQ

PIC16LF1455T-I/JQ

PIC18F45K50-E/MV

PIC18F45K50-I/MV

PIC18F45K50T-I/MV

PIC18LF45K50-E/MV

PIC18LF45K50-I/MV

PIC18LF45K50T-I/MV

PIC16F1783-E/MV

PIC16F1783-I/MV

PIC16F1783T-I/MV024

PIC16F1783T-I/MV

PIC16F1783T-E/MV

PIC16F1782-E/MV

PIC16F1782-E/MVVAO

PIC16F1782-I/MV

PIC16F1782T-I/MV

PIC16F1782T-E/MVVAO

PIC16LF1783-I/MV

PIC16LF1782-I/MV

PIC16F1512-E/MV

PIC16F1513-E/MV

PIC16F1512-I/MV

PIC16F1513-I/MV

PIC16F1513T-I/MV

PIC16LF1513-E/MV

PIC16LF1512-I/MV

PIC16LF1513-I/MV

PIC16F1789-E/MV

PIC16F1789-I/MV

PIC16F1789T-I/MV

PIC16F1789T-E/MV

PIC16LF1789-E/MV

PIC16LF1789-I/MV

PIC16LF1789T-I/MV

PIC16F1713-E/MV

PIC16F1716-E/MV

COMP_MCU_DGD_00034_V06

COMP_MCU_DGD_00098_V02

PIC16F1713-I/MV

PIC16F1716-I/MV

PIC16F1713T-I/MV

PIC16F1716T-I/MV

PIC16F1713T-E/MV

PIC16F1713T-E/MVVAO

PIC16F1716T-E/MVVAO

PIC16LF1713-I/MV

PIC16LF1716-I/MV

PIC16LF1716T-I/MV

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PIC16F1718-E/MV

PIC16F1719-E/MV

PIC16F1717-E/MV

PIC16F1718-I/MV

PIC16F1719-I/MV

PIC16F1717-I/MV

PIC16F1718T-I/MV

PIC16F1719T-I/MV

PIC16F1717T-I/MV

PIC16F1718T-E/MV

PIC16F1717T-E/MVVAO

PIC16LF1718-E/MV

PIC16LF1719-E/MV

PIC16LF1717-E/MV

PIC16LF1718-I/MV

PIC16LF1719-I/MV

PIC16LF1717-I/MV

PIC16LF1718T-I/MV

PIC16LF1719T-I/MV

PIC16LF1717T-I/MV

PIC16F1579-E/GZVAO

PIC16F1574-E/JQ

PIC16F1575-E/JQ

PIC16LF1574-I/JQ

PIC16F1574-I/JQ

PIC16LF1575-I/JQ

PIC16F1575-I/JQ

PIC16F1575T-I/JQ024

PIC16LF1574T-I/JQ

PIC16F1574T-I/JQ

PIC16LF1575T-I/JQ

PIC16F1575T-I/JQ

PIC16F1579T-E/GZVAO

PIC16F1574T-E/JQ

PIC16F1575T-E/JQ

PIC16LF1777-E/MV

PIC16F1777-E/MV

PIC16LF1779-E/MV

PIC16F1779-E/MV

PIC16LF1777-I/MV

PIC16F1777-I/MV

PIC16LF1779-I/MV

PIC16F1779-I/MV

PIC16LF1777T-I/MV

PIC16F1777T-I/MV

PIC16LF1779T-I/MV

PIC16F1779T-I/MV

PIC16LF1779T-E/MV

PIC16F1779T-E/MV

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PIC16F18324-E/JQ
PIC16LF18324-E/JQ
PIC16F18324-E/JQVAO
PIC16F18324-I/JQ
PIC16LF18324-I/JQ
PIC16LF18324-I/JQVAO
PIC16F18324T-I/JQ
PIC16LF18324T-I/JQ
PIC16LF18324T-I/JQVAO
PIC16F18324T-E/JQ
PIC16F18324T-E/JQVAO
PIC16F18855-E/MV
PIC16LF18855-E/MV
PIC16F18855-E/MVVAO
PIC16F18875-E/MV
PIC16LF18875-E/MV
PIC16F18875-E/MVVAO
PIC16F18855-I/MV
PIC16LF18855-I/MV
PIC16F18875-I/MV
PIC16LF18875-I/MV
PIC16F18855T-I/MV
PIC16LF18855T-I/MV
PIC16F18875T-I/MV
PIC16LF18875T-I/MV
PIC16F18855T-E/MV
PIC16F18855T-E/MVVAO
PIC16F18875T-E/MV
PIC16F18875T-E/MVVAO
PIC16F18345-E/GZ
PIC16LF18345-E/GZVAO
PIC16F18325-E/JQ
PIC16LF18325-E/JQ
PIC16LF18325-E/JQVAO
PIC16F18345-I/GZ
PIC16F18325-I/JQ
PIC16LF18325-I/JQ
PIC16F18325-I/JQVAO
PIC16F18345T-I/GZ
PIC16F18325T-I/JQ
PIC16LF18325T-I/JQ
PIC16F18325T-I/JQVAO
PIC16F18345T-E/GZ
PIC16LF18345T-E/GZVAO
PIC16F18325T-E/JQ
PIC16LF18325T-E/JQVAO
PIC16LF18323-E/JQ
PIC16F18323-E/JQ
PIC16LF18323-E/JQVAO

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PIC16LF18323-I/JQ

PIC16F18323-I/JQ

PIC16LF18323T-I/JQ

PIC16F18323T-I/JQ

PIC16F18323T-E/JQ

PIC16LF18323T-E/JQVAO

PIC16F18856-E/MV

PIC16LF18856-E/MV

PIC16F18876-E/MV

PIC16LF18876-E/MV

PIC16F18856-I/MV

PIC16LF18856-I/MV

PIC16F18876-I/MV

PIC16LF18876-I/MV

PIC16F18856T-I/MV

PIC16LF18856T-I/MV

PIC16F18876T-I/MVC02

PIC16F18876T-I/MV

PIC16LF18876T-I/MV

PIC16F18876T-I/MVVAO

PIC16F18856T-E/MV

PIC16LF18856T-E/MV

PIC16F18854-E/MV

PIC16LF18854-E/MV

PIC16F18854-I/MV

PIC16LF18854-I/MV

PIC16F18854T-I/MV

PIC16F18877-E/MV

PIC16LF18877-E/MV

PIC16F18877-E/MVVAO

PIC16LF18877-I/MVC04

PIC16F18877-I/MV

PIC16LF18877-I/MV

PIC16LF18877T-I/MVC04

PIC16F18877T-I/MV

PIC16LF18877T-I/MV

PIC16F18877T-E/MV

PIC16F18877T-E/MVVAO

PIC16F18424-E/JQ

PIC16F18425-E/JQ

PIC16LF18424-E/JQ

PIC16LF18425-E/JQ

PIC16F18424-I/JQ

PIC16F18425-I/JQ

PIC16LF18424-I/JQ

PIC16LF18425-I/JQ

PIC16LF18425-I/JQVAO

PIC16F18425T-I/JQC01

PIC16F18424T-I/JQ

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PIC16F184251-I/JQ
PIC16LF18424T-I/JQ
PIC16LF18425T-I/JQ
PIC16LF18425T-I/JQVAO
PIC16LF18446-E/GZVAO
PIC16F18426-E/JQ
PIC16LF18426-E/JQ
PIC16F18426-E/JQVAO
PIC16LF18426-E/JQVAO
PIC16F18426-I/JQ
PIC16LF18426-I/JQ
PIC16F18426T-I/JQ
PIC16LF18426T-I/JQ
PIC16LF18446T-E/GZVAO
PIC16F18426T-E/JQVAO
PIC16LF18426T-E/JQVAO
PIC18F47K40-E/MV
PIC18LF47K40-E/MV
PIC18F47K40-I/MV
PIC18LF47K40-I/MV
PIC18F47K40T-I/MV
PIC18LF47K40T-I/MV
PIC18F24K42-E/MV
PIC18F25K42-E/MV
PIC18LF24K42-E/MV
PIC18LF25K42-E/MV
PIC18F24K42-I/MV
PIC18F25K42-I/MV
PIC18LF24K42-I/MV
PIC18LF25K42-I/MV
PIC18F24K42T-I/MV
PIC18F25K42T-I/MV
PIC18LF24K42T-I/MV
PIC18LF25K42T-I/MV
PIC18F24K42T-E/MV
PIC18F26K40-E/MV
PIC18LF26K40-E/MV
PIC18F45K40-E/MV
PIC18F46K40-E/MV
PIC18LF45K40-E/MV
PIC18LF46K40-E/MV
PIC18LF46K40-E/MVVAO
PIC18F26K40-I/MV
PIC18LF26K40-I/MV
PIC18F45K40-I/MV
PIC18F46K40-I/MV
PIC18LF45K40-I/MV
PIC18LF46K40-I/MV
PIC18F26K40T-I/MV

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PIC18LF26K40T-I/MV
PIC18F45K40T-I/MV
PIC18F46K40T-I/MV
PIC18LF45K40T-I/MV
PIC18LF46K40T-I/MV
PIC18F26K40T-E/MV
PIC18F45K40T-E/MV
PIC18LF46K40T-E/MV
PIC18F45K40T-E/MVVAO
PIC18F46K40T-E/MVVAO
PIC18F24K40-E/MV
PIC18F25K40-E/MV
PIC18LF24K40-E/MV
PIC18LF25K40-E/MV
PIC18F24K40-I/MV
PIC18F25K40-I/MV
PIC18LF24K40-I/MV
PIC18LF25K40-I/MV
PIC18F25K40-I/MVVAO
PIC18F24K40T-I/MV
PIC18F25K40T-I/MV
PIC18LF24K40T-I/MV
PIC18LF25K40T-I/MV
PIC18F25K40T-I/MVVAO
PIC16F18346-E/GZ
PIC16LF18346-E/GZ
PIC16F18346-E/GZVAO
PIC16F18326-E/JQ
PIC16LF18326-E/JQ
PIC16F18326-E/JQVAO
PIC16F18346-I/GZC01
PIC16F18346-I/GZ
PIC16LF18346-I/GZ
PIC16F18326-I/JQ
PIC16LF18326-I/JQ
PIC16F18346T-I/GZC01
PIC16F18346T-I/GZ
PIC16LF18346T-I/GZ
PIC16F18346T-I/GZVAO
PIC16F18326T-I/JQ
PIC16LF18326T-I/JQ
PIC16F18346T-E/GZ
PIC16LF18346T-E/GZ
PIC16LF18346T-E/GZVAO
PIC16F18326T-E/JQVAO
PIC16F15354-E/MV
PIC16F15355-E/MV
PIC16LF15354-E/MV
PIC16LF15355-E/MV

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PIC16F15354-I/MV
PIC16F15355-I/MV
PIC16LF15354-I/MV
PIC16LF15355-I/MV
PIC16LF15355T-I/MV020
PIC16F15354T-I/MV
PIC16F15355T-I/MV
PIC16LF15354T-I/MV
PIC16LF15355T-I/MV
PIC16LF15355T-E/MV021
PIC16F15355T-E/MV
PIC16F15356-E/MV
PIC16LF15356-E/MV
PIC16LF15356-E/MVVAO
PIC16F15375-E/MV
PIC16F15376-E/MV
PIC16LF15375-E/MV
PIC16LF15376-E/MV
PIC16F15375-E/MVVAO
PIC16F15356-I/MV
PIC16LF15356-I/MV
PIC16F15375-I/MV
PIC16F15376-I/MV
PIC16LF15375-I/MV
PIC16LF15376-I/MV
PIC16F15356T-I/MV
PIC16LF15356T-I/MV
PIC16F15375T-I/MV
PIC16F15376T-I/MV
PIC16LF15375T-I/MV
PIC16LF15376T-I/MV
PIC16F15356T-E/MV
PIC16LF15356T-E/MVVAO
PIC16F15345-E/GZVAO
PIC16F15325-E/JQ
PIC16LF15325-E/JQ
PIC16F15325-E/JQVAO
PIC16F15325-I/JQ
PIC16LF15325-I/JQ
PIC16F15325T-I/JQ
PIC16LF15325T-I/JQ
PIC16F15345T-E/GZVAO
PIC16LF15345T-E/GZVAO
PIC16F15325T-E/JQ
PIC16F15325T-E/JQVAO
PIC16LF15325T-E/JQVAO
PIC16F15324-E/JQ
PIC16LF15324-E/JQ
PIC16F15324-E/JQVAO

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PIC16F15324-I/JQ

PIC16LF15324-I/JQ

PIC16F15324-I/JQVAO

PIC16F15324T-I/JQ

PIC16LF15324T-I/JQ

PIC16F15324T-E/JQVAO

PIC16F15323-E/JQ

PIC16LF15323-E/JQ

PIC16F15323-I/JQ

PIC16LF15323-I/JQ

PIC16F15323-I/JQVAO

PIC16F15323T-I/JQ

PIC16LF15323T-I/JQ

PIC16F15323T-E/JQ

PIC16LF15323T-E/JQ

PIC16F19155-E/MV

PIC16F19156-E/MV

PIC16LF19155-E/MV

PIC16LF19156-E/MV

PIC16F19175-E/MV

PIC16F19176-E/MV

PIC16LF19175-E/MV

PIC16LF19176-E/MV

PIC16F19155-I/MV

PIC16F19156-I/MV

PIC16LF19155-I/MV

PIC16LF19156-I/MV

PIC16F19175-I/MV

PIC16F19176-I/MV

PIC16LF19175-I/MV

PIC16LF19176-I/MV

PIC16F19155T-I/MV

PIC16LF19155T-I/MV

PIC16LF19156T-I/MV

PIC16F19176T-I/MVC02

PIC16F19175T-I/MV

PIC16F19176T-I/MV

PIC16LF19175T-I/MV

PIC16LF19176T-I/MV

PIC18LF45K42-E/MV

PIC18F45K42-E/MV

PIC18LF46K42-E/MV

PIC18F46K42-E/MV

PIC18F46K42-E/MVVAO

PIC18LF45K42-I/MV

PIC18F45K42-I/MV

PIC18LF46K42-I/MV

PIC18F46K42-I/MV

PIC18LF45K42T-I/MV

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PIC18F45K42T-I/MV

PIC18LF46K42T-I/MV

PIC18F46K42T-I/MV

PIC18F45K42T-I/MVVAO

PIC18F47K42-E/MV

PIC18LF47K42-E/MV

PIC18F47K42-I/MV

PIC18LF47K42-I/MV

PIC18F47K42T-I/MV

PIC18LF47K42T-I/MV