



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										
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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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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

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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

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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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PIC16F18425T-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

JAON-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.

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

JAON-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.

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

JAON-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.

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



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).

<u>Misc.</u>	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
<u>Lead-Frame</u>	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
<u>Bond Wire</u>	Material	Au
<u>Die Attach</u>	Part Number	8600
	Conductive	Yes
<u>MC</u>	Part Number	G700LTD
<u>PKG</u>	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 identified)	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.
UFAST	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.