

# Product Change Notification - IIRA-22KPRZ871

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**Date:** 03 Jun 2014

**Product Category:** 16-bit Microcontrollers and Digital Signal Controllers; Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers; 32-bit PIC Microcontrollers

**Notification subject:** CCB 1420 Initial Notice: Qualification of C194 lead-frame in 64L and 44L TQFP (10x10) packages at ANAP (ATP) assembly site

**Notification text:**

## **PCN Status:**

Initial notification

## **Microchip Parts Affected:**

See attachments of affected catalog part numbers (CPN) labeled as...

PCN\_IIRA-22KPRZ871\_Affected\_CPN.xls

PCN\_IIRA-22KPRZ871\_Affected\_CPN.pdf

## **Description of Change:**

Qualification of C194 lead-frame in 64L and 44L TQFP (10x10) packages at ANAP (ATP) assembly site.

## **Pre Change:**

EFTECT-64T lead-frame material

## **Post Change:**

C194 lead-frame material

## **Impacts to Data Sheet:**

None

**Reason for Change:**

To improve on-time delivery performance

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

August 1, 2014 (date code: 1431)

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:**

**June 3, 2014:** 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.

**Attachment(s):**

[PCN\\_IIRA-22KPRZ871\\_Affected\\_CPN.pdf](#) [PCN\\_IIRA-22KPRZ871\\_Qual\\_Plan.pdf](#) [PCN\\_IIRA-22KPRZ871\\_Affected\\_CPN.xlsx](#)

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PIC16F946T-I/PT024
PIC16F946T-I/PTC02
PIC16F946T-I/PTVAO
PIC16LC925-I/PT
PIC16LC926-I/PT
PIC16LC926-I/PTC01
PIC16LC926-I/PTC03
PIC16LF1517-E/PT
PIC16LF1517-I/PT
PIC16LF1517T-I/PT
PIC16LF1519-E/PT
PIC16LF1519-E/PTVAO
PIC16LF1519-I/PT
PIC16LF1519T-E/PTVAO
PIC16LF1519T-I/PT
PIC16LF1526-E/PT
PIC16LF1526-I/PT
PIC16LF1526T-I/PT
PIC16LF1527-E/PT
PIC16LF1527-I/PT
PIC16LF1527-I/PTC01
PIC16LF1527T-I/PT
PIC16LF1527T-I/PTC01
PIC16LF1717-E/PT
PIC16LF1717-I/PT
PIC16LF1717T-I/PT
PIC16LF1719-E/PT
PIC16LF1719-I/PT
PIC16LF1719T-I/PT
PIC16LF1789-E/PT
PIC16LF1789-I/PT
PIC16LF1789T-I/PT
PIC16LF1904-E/PT
PIC16LF1904-I/PT
PIC16LF1904T-I/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC16LF1907-E/PT
PIC16LF1907-I/PT
PIC16LF1907T-I/PT
PIC16LF1934-E/PT
PIC16LF1934-I/PT
PIC16LF1934-I/PT021
PIC16LF1934-I/PT022
PIC16LF1934-I/PT023
PIC16LF1934-I/PTVAO
PIC16LF1934T-I/PT
PIC16LF1934T-I/PTVAO
PIC16LF1937-E/PT
PIC16LF1937-I/PT
PIC16LF1937-I/PTC04
PIC16LF1937-I/PTVAO
PIC16LF1937T-I/PT
PIC16LF1937T-I/PTC04
PIC16LF1937T-I/PTVAO
PIC16LF1939-E/PT
PIC16LF1939-I/PT
PIC16LF1939-I/PT020
PIC16LF1939-I/PT021
PIC16LF1939-I/PT022
PIC16LF1939-I/PT023
PIC16LF1939-ICE/PT
PIC16LF1939T-I/PT
PIC16LF1946-E/PT
PIC16LF1946-I/PT
PIC16LF1946T-I/PT
PIC16LF1947-E/PT
PIC16LF1947-I/PT
PIC16LF1947-I/PTC01
PIC16LF1947-I/PTC02
PIC16LF1947-I/PTC03
PIC16LF1947T-I/PT
PIC16LF1947T-I/PTC01
PIC16LF1947T-I/PTC02
PIC16LF1947T-I/PTC03
PIC16LF707-E/PT
PIC16LF707-I/PT
PIC16LF707T-I/PT
PIC16LF724-E/PT
PIC16LF724-I/PT
PIC16LF724T-I/PT
PIC16LF727-E/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC16LF727-I/PT
PIC16LF727-ICE/PT
PIC16LF727T-I/PT
PIC16LF747-I/PT
PIC16LF747T-I/PT
PIC16LF777-I/PT
PIC16LF777T-I/PT
PIC16LF77-I/PT
PIC16LF77T-I/PT
PIC16LF77T-I/PTC10
PIC16LF874A-I/PT
PIC16LF874AT-I/PT
PIC16LF877-04/PT
PIC16LF877-04I/PT
PIC16LF877A-E/PTC21
PIC16LF877A-I/PT
PIC16LF877AT-E/PTC21
PIC16LF877AT-I/PT
PIC16LF877AT-I/PT033
PIC16LF877AT-I/PTC16
PIC18C442-I/PT
PIC18C452-I/PT
PIC18C601-I/PT
PIC18C658-I/PT
PIC18CR6627-I/PT
PIC18F4220-E/PT
PIC18F4220-I/PT
PIC18F4220T-I/PT
PIC18F4221-E/PT
PIC18F4221-I/PT
PIC18F4221T-E/PT
PIC18F4221T-I/PT
PIC18F4320-E/PT
PIC18F4320-I/PT
PIC18F4320-I/PTC09
PIC18F4320T-I/PT
PIC18F4320T-I/PTC2
PIC18F4321-E/PT
PIC18F4321-I/PT
PIC18F4321T-I/PT
PIC18F4331-E/PT
PIC18F4331-I/PT
PIC18F4331-I/PT020
PIC18F4331T-I/PT
PIC18F4331T-I/PTV01



PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F43K20-E/PT
PIC18F43K20-I/PT
PIC18F43K20-I/PTC01
PIC18F43K20T-I/PT
PIC18F43K20T-I/PTC01
PIC18F43K22-E/PT
PIC18F43K22-I/PT
PIC18F43K22T-I/PT
PIC18F4410-I/PT
PIC18F4410T-I/PT
PIC18F4420-E/PT
PIC18F4420-I/PT
PIC18F4420T-E/PT
PIC18F4420T-I/PT
PIC18F4423-E/PT
PIC18F4423-I/PT
PIC18F4423T-I/PT
PIC18F442-E/PT
PIC18F442-I/PT
PIC18F442T-I/PT
PIC18F4431-E/PT
PIC18F4431-I/PT
PIC18F4431T-E/PT
PIC18F4431T-I/PT
PIC18F4431T-I/PT020
PIC18F4431T-I/PT021
PIC18F4439-I/PT
PIC18F4450-I/PT
PIC18F4480-E/PT
PIC18F4480-I/PT
PIC18F4480T-E/PT
PIC18F4480T-I/PT
PIC18F448-E/PT
PIC18F448-E/PTGVAO
PIC18F448-I/PT
PIC18F448T-I/PT
PIC18F44J10-I/PT
PIC18F44J10T-I/PT
PIC18F44J11-I/PT
PIC18F44J11T-I/PT
PIC18F44J50-I/PT
PIC18F44J50T-I/PT
PIC18F44K20-E/PT
PIC18F44K20-I/PT
PIC18F44K20T-E/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F44K20T-I/PT
PIC18F44K20T-I/PT020
PIC18F44K22-E/PT
PIC18F44K22-I/PT
PIC18F44K22T-E/PT
PIC18F44K22T-I/PT
PIC18F4510-E/PT
PIC18F4510-I/PT
PIC18F4510T-I/PT
PIC18F4520-E/PT
PIC18F4520-E/PTV05
PIC18F4520-I/PT
PIC18F4520-I/PTB4
PIC18F4520T-E/PT
PIC18F4520T-E/PTV05
PIC18F4520T-E/PTV09
PIC18F4520T-I/PT
PIC18F4520T-I/PTB4
PIC18F4523-E/PT
PIC18F4523-I/PT
PIC18F4523T-I/PT
PIC18F452-E/PT
PIC18F452-E/PTC34
PIC18F452-I/PT
PIC18F452-I/PTC17
PIC18F452-I/PTV01
PIC18F452-I/PTVAO
PIC18F452T-I/PT
PIC18F452T-I/PTVAO
PIC18F4580-E/PT
PIC18F4580-I/PT
PIC18F4580-I/PTC02
PIC18F4580T-E/PT
PIC18F4580T-I/PT
PIC18F4580T-I/PT022
PIC18F4580T-I/PTC02
PIC18F4585-E/PT
PIC18F4585-H/PT
PIC18F4585-H/PTVAO
PIC18F4585-I/PT
PIC18F4585-I/PTV03
PIC18F4585T-H/PTVAO
PIC18F4585T-I/PT
PIC18F4585T-I/PT021
PIC18F4585T-I/PTV03

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F458-E/PT
PIC18F458-I/PT
PIC18F458T-E/PTVAO
PIC18F458T-I/PT
PIC18F458T-I/PTVAO
PIC18F45J10-I/PT
PIC18F45J10T-I/PT
PIC18F45J11-I/PT
PIC18F45J11T-I/PT
PIC18F45J50-I/PT
PIC18F45J50T-I/PT
PIC18F45J50T-I/PTLS
PIC18F45K20-E/PT
PIC18F45K20-I/PT
PIC18F45K20-I/PTC02
PIC18F45K20-I/PTC04
PIC18F45K20-I/PTC07
PIC18F45K20-I/PTVAO
PIC18F45K20T-I/PT
PIC18F45K20T-I/PTC02
PIC18F45K20T-I/PTC04
PIC18F45K20T-I/PTC07
PIC18F45K20T-I/PTVAO
PIC18F45K22-E/PT
PIC18F45K22-I/PT
PIC18F45K22-I/PT020
PIC18F45K22-I/PT021
PIC18F45K22-I/PTVAO
PIC18F45K22T-E/PT
PIC18F45K22T-E/PTV01
PIC18F45K22T-I/PT
PIC18F45K80-E/PT
PIC18F45K80-H/PT
PIC18F45K80-I/PT
PIC18F45K80-I/PTVAO
PIC18F45K80T-E/PT
PIC18F45K80T-I/PT
PIC18F45K80T-I/PT021
PIC18F45K80T-I/PTV12
PIC18F45K80T-I/PTVAO
PIC18F4680-E/PT
PIC18F4680-E/PTC04
PIC18F4680-E/PTVAO
PIC18F4680-H/PT
PIC18F4680-H/PTV04

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F4680-H/PTVAO
PIC18F4680-I/PT
PIC18F4680-I/PTVAO
PIC18F4680T-E/PT
PIC18F4680T-E/PT054
PIC18F4680T-E/PT055
PIC18F4680T-E/PT058
PIC18F4680T-E/PTV05
PIC18F4680T-H/PTV04
PIC18F4680T-H/PTVAO
PIC18F4680T-I/PT
PIC18F4680T-I/PT033
PIC18F4680T-I/PT051
PIC18F4680T-I/PTVAO
PIC18F4682-E/PT
PIC18F4682-I/PT
PIC18F4682-I/PTVAO
PIC18F4682T-I/PT
PIC18F4682T-I/PT020
PIC18F4682T-I/PT021
PIC18F4682T-I/PT022
PIC18F4682T-I/PTV01
PIC18F4682T-I/PTVAO
PIC18F4685-E/PT
PIC18F4685-E/PT021
PIC18F4685-E/PT025
PIC18F4685-E/PT026
PIC18F4685-I/PT
PIC18F4685T-E/PT021
PIC18F4685T-E/PT022
PIC18F4685T-E/PT025
PIC18F4685T-E/PT026
PIC18F4685T-E/PT027
PIC18F4685T-E/PTV02
PIC18F4685T-E/PTV03
PIC18F4685T-I/PT
PIC18F46J11-I/PT
PIC18F46J11-I/PTC02
PIC18F46J11-I/PTC04
PIC18F46J11T-I/PT
PIC18F46J11T-I/PTC04
PIC18F46J13-I/PT
PIC18F46J13T-I/PT
PIC18F46J50-I/PT
PIC18F46J50T-I/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F46J53-I/PT
PIC18F46J53T-I/PT
PIC18F46K20-E/PT
PIC18F46K20-E/PTC03
PIC18F46K20-I/PT
PIC18F46K20-I/PT022
PIC18F46K20-I/PTC05
PIC18F46K20-I/PTC06
PIC18F46K20-I/PTC07
PIC18F46K20T-E/PT
PIC18F46K20T-E/PTC03
PIC18F46K20T-I/PT
PIC18F46K20T-I/PT024
PIC18F46K20T-I/PT025
PIC18F46K20T-I/PT026
PIC18F46K20T-I/PT027
PIC18F46K20T-I/PT028
PIC18F46K20T-I/PTC05
PIC18F46K20T-I/PTC06
PIC18F46K20T-I/PTC07
PIC18F46K22-E/PT
PIC18F46K22-I/PT
PIC18F46K22T-E/PT
PIC18F46K22T-I/PT
PIC18F46K22T-I/PT020
PIC18F46K22T-I/PT022
PIC18F46K80-E/PT
PIC18F46K80-H/PT
PIC18F46K80-I/PT
PIC18F46K80T-E/PT
PIC18F46K80T-I/PT
PIC18F46K80T-I/PTV10
PIC18F46K80T-I/PTVAO
PIC18F47J13-I/PT
PIC18F47J13T-I/PT
PIC18F47J53-I/PT
PIC18F47J53T-I/PT
PIC18F6310-E/PT
PIC18F6310-I/PT
PIC18F6310T-I/PT
PIC18F6410-E/PT
PIC18F6410-I/PT
PIC18F6410-I/PTV01
PIC18F6410T-I/PT
PIC18F6410T-I/PTC01

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F6490-E/PT
PIC18F6490-I/PT
PIC18F6490T-I/PT
PIC18F6493-I/PT
PIC18F6493-I/PTREL
PIC18F6493T-I/PT
PIC18F6520-E/PT
PIC18F6520-I/PT
PIC18F6520-I/PTC07
PIC18F6520-I/PTC08
PIC18F6520T-E/PT
PIC18F6520T-I/PT
PIC18F6525-E/PT
PIC18F6525-I/PT
PIC18F6527-I/PT
PIC18F6527T-E/PTV04
PIC18F6527T-I/PT
PIC18F6527T-I/PTV01
PIC18F6585-E/PT
PIC18F6585-I/PT
PIC18F6585-I/PTVAO
PIC18F65J50-I/PT
PIC18F65J50T-I/PTV01
PIC18F65K22-I/PTC07
PIC18F65K22-I/PTC10
PIC18F65K22T-I/PTC07
PIC18F65K22T-I/PTC10
PIC18F65K22T-I/PTRSL
PIC18F65K80-E/PT
PIC18F65K80-H/PT
PIC18F65K80-I/PT
PIC18F65K80-I/PTVAO
PIC18F65K80T-E/PT
PIC18F65K80T-I/PT
PIC18F65K80T-I/PTVAO
PIC18F65K90-E/PT
PIC18F65K90T-I/PTRSL
PIC18F6620-E/PT
PIC18F6620-I/PT
PIC18F6620T-E/PT024
PIC18F6620T-E/PTV01
PIC18F6620T-E/PTVAO
PIC18F6620T-I/PT
PIC18F6621-E/PT
PIC18F6621-I/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F6621T-I/PT
PIC18F6622-E/PT
PIC18F6622-I/PT
PIC18F6622-I/PT026
PIC18F6622-I/PTV02
PIC18F6622T-E/PTV03
PIC18F6622T-I/PT
PIC18F6622T-I/PTV02
PIC18F6627-E/PT
PIC18F6627-E/PTVAO
PIC18F6627-I/PT
PIC18F6627-I/PTVAO
PIC18F6627T-E/PT
PIC18F6627T-E/PTV01
PIC18F6627T-E/PTVAO
PIC18F6627T-I/PT
PIC18F6627T-I/PT024
PIC18F6627T-I/PTVAO
PIC18F6628-E/PT
PIC18F6628-I/PT
PIC18F6628T-I/PT
PIC18F6680-E/PT
PIC18F6680-I/PT
PIC18F6680-I/PTC05
PIC18F6680T-I/PT
PIC18F66J11-I/PTC01
PIC18F66J16-I/PT
PIC18F66J50-I/PT
PIC18F66J50T-I/PT
PIC18F66J55-I/PT
PIC18F66J55T-I/PT
PIC18F66J60-I/PT
PIC18F66J60T-I/PT020
PIC18F66J65-I/PT
PIC18F66J65T-I/PT
PIC18F66J90-I/PT
PIC18F66J90T-I/PT
PIC18F66J93-I/PT
PIC18F66J93T-I/PT
PIC18F66K22-I/PTC11
PIC18F66K22T-I/PTC11
PIC18F66K22T-I/PTRSL
PIC18F66K80-E/PT
PIC18F66K80-H/PT
PIC18F66K80-I/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F66K80-I/PTVAO
PIC18F66K80T-E/PT
PIC18F66K80T-I/PT
PIC18F66K80T-I/PTVAO
PIC18F66K90-E/PT
PIC18F66K90-I/PTRSL
PIC18F66K90T-I/PTC06
PIC18F66K90T-I/PTRSL
PIC18F66K90T-I/PTRSLC04
PIC18F6720-E/PT
PIC18F6720-I/PT
PIC18F6720-I/PTC01
PIC18F6720T-I/PT
PIC18F6720T-I/PTC01
PIC18F6722-E/PT
PIC18F6722-I/PT
PIC18F6722-I/PTB1
PIC18F6722-I/PTV04
PIC18F6722T-E/PT
PIC18F6722T-E/PTV03
PIC18F6722T-I/PT
PIC18F6722T-I/PTB1
PIC18F6723-E/PREL
PIC18F6723-E/PT
PIC18F6723-I/PREL
PIC18F6723-I/PT
PIC18F6723T-I/PT
PIC18F67J11-I/PT
PIC18F67J11-I/PTC02
PIC18F67J11-I/PTC04
PIC18F67J11T-I/PT
PIC18F67J11T-I/PTC04
PIC18F67J50-I/PT
PIC18F67J50-I/PT021
PIC18F67J50-I/PT022
PIC18F67J50-I/PT023
PIC18F67J50-I/PTC03
PIC18F67J50T-I/PT
PIC18F67J50T-I/PT021
PIC18F67J50T-I/PT022
PIC18F67J50T-I/PT023
PIC18F67J50T-I/PT024
PIC18F67J50T-I/PTC03
PIC18F67J60-I/PT
PIC18F67J60T-I/PT



PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18F67J60T-I/PT020
PIC18F67J90-I/PT
PIC18F67J90T-I/PT
PIC18F67J93-I/PT
PIC18F67J93T-I/PT
PIC18F67K22-E/PT
PIC18F67K22-I/PT
PIC18F67K22-I/PTC02
PIC18F67K22-I/PTC08
PIC18F67K22-I/PTRSL
PIC18F67K22T-I/PT
PIC18F67K22T-I/PTC08
PIC18F67K22T-I/PTRSL
PIC18F67K90-E/PT
PIC18F67K90-I/PT
PIC18F67K90-I/PT021
PIC18F67K90-I/PT022
PIC18F67K90-I/PT024
PIC18F67K90-I/PTC05
PIC18F67K90-I/PTRSL
PIC18F67K90T-I/PT
PIC18F67K90T-I/PT021
PIC18F67K90T-I/PT022
PIC18F67K90T-I/PT024
PIC18F67K90T-I/PTRSL
PIC18LC452-I/PT
PIC18LF4220-I/PT
PIC18LF4220T-I/PT
PIC18LF4221-I/PT
PIC18LF4320-I/PT
PIC18LF4320T-I/PT
PIC18LF4321-I/PT
PIC18LF4321T-I/PT
PIC18LF4331-I/PT
PIC18LF4331-I/PTC01
PIC18LF4331T-I/PTC01
PIC18LF43K22-E/PT
PIC18LF43K22-I/PT
PIC18LF43K22T-I/PT
PIC18LF4410-I/PT
PIC18LF4420-I/PT
PIC18LF4420T-I/PT
PIC18LF4423-I/PT
PIC18LF4423T-I/PT
PIC18LF442-I/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18LF4431-I/PT
PIC18LF4450-I/PT
PIC18LF4480-I/PT
PIC18LF4480T-I/PT
PIC18LF448-I/PT
PIC18LF44J10-I/PT
PIC18LF44J11-I/PT
PIC18LF44J11T-I/PT
PIC18LF44J50-I/PT
PIC18LF44J50T-I/PT
PIC18LF44K22-E/PT
PIC18LF44K22-I/PT
PIC18LF44K22T-I/PT
PIC18LF4510-I/PT
PIC18LF4510T-I/PT
PIC18LF4520-I/PT
PIC18LF4520-I/PTC12
PIC18LF4520T-I/PT
PIC18LF4523-I/PT
PIC18LF4523T-I/PT
PIC18LF452-I/PT
PIC18LF452-I/PTC33
PIC18LF452T-I/PT
PIC18LF4580-I/PT
PIC18LF4580T-I/PT
PIC18LF4585-I/PT
PIC18LF4585T-I/PT
PIC18LF458-I/PT
PIC18LF45J10-I/PT
PIC18LF45J11-I/PT
PIC18LF45J11T-I/PT
PIC18LF45J50-I/PT
PIC18LF45J50T-I/PT
PIC18LF45K22-E/PT
PIC18LF45K22-E/PTVAO
PIC18LF45K22-I/PT
PIC18LF45K22T-E/PTVAO
PIC18LF45K22T-I/PT
PIC18LF45K80-I/PT
PIC18LF45K80T-I/PT
PIC18LF4680-I/PT
PIC18LF4680T-I/PT
PIC18LF4682-I/PT
PIC18LF4685-I/PT
PIC18LF46J11-I/PT

PCN_IIRA-22KPRZ871
CATALOG_PART_NBR
PIC18LF46J11T-I/PT
PIC18LF46J13-I/PT
PIC18LF46J13T-I/PT
PIC18LF46J50-I/PT
PIC18LF46J50T-I/PT
PIC18LF46J53-I/PT
PIC18LF46J53T-I/PT
PIC18LF46K22-E/PT
PIC18LF46K22-I/PT
PIC18LF46K22T-E/PTVAO
PIC18LF46K22T-I/PT
PIC18LF46K22T-I/PTC01
PIC18LF46K80-I/PT
PIC18LF46K80T-I/PT
PIC18LF47J13-I/PT
PIC18LF47J13T-I/PT
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TC7117CPT713



**MICROCHIP**

# **QUALIFICATION PLAN**

**PCN #: IIRA-22KPRZ871**

**Date:  
May 21, 2014**

**Qualification of C194 lead-frame in 64L TQFP (10x10) package at ANAP (ATP) assembly site. The 44L TQFP (10x10) package will qualify by similarity at ANAP (ATP) assembly site.**

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**Purpose:** \_\_\_\_\_ Qualification of C194 lead-frame in 64L TQFP (10x10) package at ANAP (ATP) assembly site. The 44L TQFP (10x10) package will qualify by similarity at ANAP (ATP) assembly site.

**MP code:** \_\_\_\_\_ DFAK1

**Part No.:** \_\_\_\_\_ DSPIC30F6015

**BD No.:** \_\_\_\_\_ BDM-000501 rev. A

**CCB No.:** \_\_\_\_\_ 1420

**Package:**

**Type:** \_\_\_\_\_ 64L TQFP

**Width or Size:** \_\_\_\_\_ 10x10x1.0

**Die thickness:** \_\_\_\_\_ 11 mils

**Die size:** \_\_\_\_\_ 267.6 x 265.1 mils

**Lead frame:**

**Paddle size:** \_\_\_\_\_ 295 x 295 mils (MHT Japan)

**Material:** \_\_\_\_\_ C194

**Surface:** \_\_\_\_\_ Ag ring

**Process:** \_\_\_\_\_ Etched

**Lead Lock:** \_\_\_\_\_ No

**Part Number:** \_\_\_\_\_ 101387591

**Wire:**

**Material:** \_\_\_\_\_ Au (HEP Philippines)

**Die Attach Epoxy:**

**Part Number:** \_\_\_\_\_ 8290 (Henkel South Korea)

**Conductive:** \_\_\_\_\_ Yes

**Mold Compound:** \_\_\_\_\_ G700L (Sumitomo Singapore)

**Reliability Test plan:** \_\_\_\_\_ See attached, STD Package Reliability Test plan on each package.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Standard Pb-free Solderability	JESD22B-102E; Perform 8 hour 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	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.
Standard SnPb Solderability	JESD22B-102E; Perform 8 hour steam aging prior to testing.  Standard SnPb: SnPb finish, SnPb solder, wetting temp 215°C for SMD & 245°C for through hole packages.	22	5	1	27	> 95% lead coverage	5	
Backward Solderability	JESD22B-102E; Perform 8 hours steam aging for Matte tin finish and 1 hour 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	
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	30 bonds from a minimum of 5 devices.
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)	+175°C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25°C and hot temp.	45	5	1	50	0	10	Must be in progress at time of package release to production, but completion is not required for release to production. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable).

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020D for package type. Electrical test pre and post stress at +25°C. Perform SAM analysis using the standard sample size. MSL-3 @ 260°C	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp. (1 lot to be tested at 125°C)	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Unbiased HAST	+130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs Electrical test pre and post stress at +25°C.	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress. (1 lot to be tested at 125°C)	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.