



Product Change Notification / JAON-04DXFD964

Date:

09-Feb-2021

Product Category:

8-bit Microcontrollers, Analog to Digital Converters, Capacitive Touch Sensors, Charge Pump DC-to-DC Converters, Digital Potentiometers, Digital to Analog Converters, Instrumentation Amplifier, Interface-Controller Area Network (CAN), Interface- Infrared Products, Interface- LIN Transceiver, KEELOQ® Encoder Devices, Linear Comparators, Linear Op Amps, Linear Programmable Gain Amplifiers, Memory, Piezoelectric Horn Drivers and CO Detector, Power Management - PWM Controllers, Power MOSFET Drivers, Real-Time Clock/Calendar, RFID tag ICs - microID® ICs, Temperature Sensors

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4541 Final Notice: Qualification of a new lead frame design for selected products available in 8L SOIC package using 8390A die attach and gold (Au) bond wire material assembled at MMT assembly site.

Affected CPNs:

[JAON-04DXFD964_Affected_CPN_02092021.pdf](#)

[JAON-04DXFD964_Affected_CPN_02092021.csv](#)

Notification Text:

PCN Status: Final 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 a new lead frame design for selected products available in 8L SOIC package using 8390A die attach and gold (Au) bond wire material assembled at MMT assembly site.

Pre Change:

Using lead frame without lead lock

Post Change:Using lead frame with lead lock**Pre and Post Change Summary:**

| | Pre Change | Post Change |
|----------------------------------|--|--|
| Assembly Site | Microchip Technology Thailand (Branch) / MMT | Microchip Technology Thailand (Branch) / MMT |
| Wire material | Au | Au |
| Die attach material | 8390A | 8390A |
| Molding compound material | G600V | G600V |
| Lead frame material | CDA194 | CDA194 |
| Lead Frame Lead Lock | No | Yes |
| | See attached pre and post change comparison | |

Impacts to Data Sheet: None**Change Impact:**None**Reason for Change:**To improve productivity by qualifying new lead frame design**Change Implementation Status:**In Progress**Estimated First Ship Date:**February 19, 2021 (date code: 2108)

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

Due to unforeseen circumstances, that are out of Microchip's control, full qualification will be made available as soon as it is approved which may be after the estimated first ship date so that Microchip can maintain continuity of supply and not disrupt customer orders.

Time Table Summary:

| | February 2021 | | | | March 2021 | | | | |
|---------------------------|---------------|----|----|----|------------|----|----|----|----|
| | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
| Workweek | | | | | | | | | |
| Final PCN Issue Date | | X | | | | | | | |
| Qual Report Availability | | | | | | | X | | |
| Estimated First Ship Date | | | X | | | | | | |

Method to Identify Change: Traceability code

Estimated Qualification Completion Date: March 2021

Note: This final PCN will be updated to include the Qualification report as soon as it is completed.

Revision History: February 9, 2021: Issued final notification. Provided estimated first ship date to be February 19, 2021.

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-04DXFD964_Qual_Plan.pdf](#)

[PCN_JAON-04DXFD964_Pre and Post Change_Summary.pdf](#)

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

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

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.

Affected Catalog Part Numbers (CPN)

MCP14E6-E/SN
MCP14E6T-E/SN
MCP14E7-E/SN
MCP14E7T-E/SN
MCP14E8-E/SN
MCP14E8T-E/SN
MCP14E9-E/SN
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TC622COA713

TC622VOA713

AAC243E-S8A-G-LF-TR

CCB 4541

Pre and Post Change Summary

PCN # JAON-04DXFD964



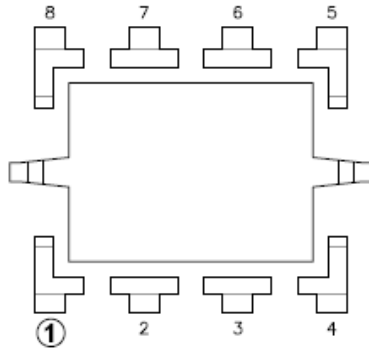
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

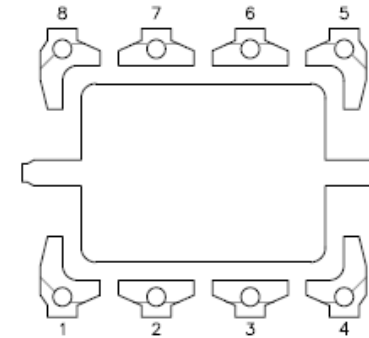
Lead frame Comparison

Pre Change

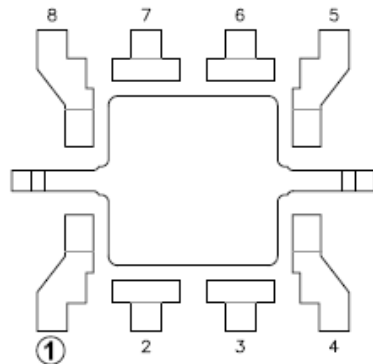


LF STRIP DENSITY: x140
LF PAD SIZE: 95x130 mils
LEAD LOCK: NO

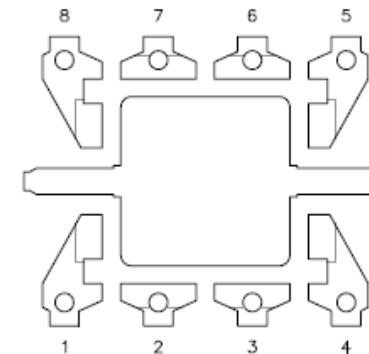
Post Change



LF STRIP DENSITY: x320
LF PAD SIZE: 95x130 mils
LEAD LOCK: YES



LF STRIP DENSITY: x140
LF PAD SIZE: 90x90 mils
LEAD LOCK: NO



LF STRIP DENSITY: x320
LF PAD SIZE: 90x90 mils
LEAD LOCK: YES



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: JAON-04DXFD964

Date

January 21, 2021

Qualification of a new lead frame design for selected products available in 8L SOIC package using 8390A die attach and gold (Au) bond wire material assembled at MMT assembly site.

Purpose: Qualification of a new lead frame design for selected products available in 8L SOIC package using 8390A die attach and gold (Au) bond wire material assembled at MMT assembly site.

CCB No.: 4541

| | | |
|--------------------------|--|------------------|
| <u>Misc.</u> | Assembly site | MMT |
| | BD Number | BDM-002812/A |
| | MP Code (MPC) | MVAR14C2XFX3 |
| | Part Number (CPN) | PIC16F15313-E/SN |
| | MSL information | MSL-1/260C |
| | Assembly Shipping Media (T/R, Tube/Tray) | Tube |
| | Base Quantity Multiple (BQM) | 100 |
| | Reliability Site | MTAI |
| <u>Lead-Frame</u> | Paddle size | 95x130 mils |
| | Material | CDA194 |
| | DAP Surface Prep | Bare Cu |
| | Treatment | BOT |
| | Process | Stamped |
| | Lead-lock | Yes |
| | Part Number | 10100842 |
| | Lead Plating | Matte Tin |
| | Strip Size | 239.0x70.0mm |
| | Strip Density | 320 pads/strip |
| <u>Bond Wire</u> | Material | Au |
| <u>Die Attach</u> | Part Number | 8390A |
| | Conductive | Yes |
| <u>MC</u> | Part Number | G600V |
| <u>PKG</u> | PKG Type | SOIC |
| | Pin/Ball Count | 8 |
| | PKG width/size | 150 mils |

| 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 | Test Site | Special Instructions |
|---|--|---|--|-------------|-------------|---------------------|----------------|-----------|--|
| Standard Pb-free Solderability | J-STD-002 ; 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. |
| Wire Bond Pull - WBP | Mil. Std. 883-2011 | 5 | 0 | 3 | 15 | 0 fails after TC | 5 | MMT/MTAI | 30 bonds from a minimum of 5 devices. |
| Wire Bond Shear - WBS | CDF-AEC-Q100-001 | 5 | 0 | 3 | 15 | | 5 | MMT/MTAI | 30 bonds from a minimum of 5 devices. |
| Wire Sweep | | 5 | 0 | 3 | 15 | 0 | | MMT | Required for any reduction in wire bond thickness. |
| 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 | MMT/ MTAI | |
| 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-020E for package type; Electrical test pre and post stress at +25°C. MSL1/260C | 231 | 15 | 3 | 738 | 0 | 15 | MTAI | Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test. |

| 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 | Test Site | Special Instructions |
|----------------------|---|-------------|--|-------------|-------------|-----------------|----------------|-----------|---|
| HAST | +130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp. | 77 | 5 | 3 | 246 | 0 | 10 | MTAI | Spares should be properly identified. Use the parts which have gone through Pre-conditioning. |
| Unbiased HAST | +130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C. | 77 | 5 | 3 | 246 | 0 | 10 | MTAI | 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. | 77 | 5 | 3 | 246 | 0 | 15 | MTAI | Spares should be properly identified. Use the parts which have gone through Pre-conditioning. |