



Product Change Notification / JAON-04DXFD964

Date:

22-Mar-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_03222021.pdf](#)

[JAON-04DXFD964_Affected_CPN_03222021.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.

Time Table Summary:

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

Method to Identify Change: Traceability code**Qualification Report**Please open the attachments included with this PCN labeled as PCN_#_Qual_Report

Revision History:**February 9, 2021:** Issued final notification. Provided estimated first ship date to be February 19, 2021.**March 22, 2021:** Re-issued final notification. Attached the qualification report.

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 Report.pdf](#)

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

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

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JAON-04DXFD964 - 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 Catalog Part Numbers(CPN)

PIC12F629T-I/SN220
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MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: JAON-04DXFD964

Date

March 08, 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.



MICROCHIP

PACKAGE QUALIFICATION REPORT

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.

CN ES352231

QUAL ID R2100093 Rev A

MP CODE MVAR14C2XFX3

Part No. PIC16F15313-E/SN

Bonding No. BDM-002812 Rev. A

CCB# 4541

Package

Type 8L SOIC

Package size 150 mils

Lead Frame

Paddle size 95 x 130 mils

Material CDA194

Surface Bare Cu

Process Stamped

Lead Lock Yes

Part Number 10100842

Treatment BOT

Material

Epoxy 8390A

Wire Au

Mold Compound G600V

Plating Composition Matte Sn



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot.	Date Code
MMT-214202310.000	TMPE221054345.600	2103V5R
MMT-214202312.000	TMPE221054345.600	210325E
MMT-214302391.000	TMPE221054345.600	2104260

Result

Pass Fail _____

8L SOIC assembled by MMT 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-020E standard.

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Precondition Prior Perform Reliability Tests (At MSL Level 1)	Electrical Test: +25°C, 85°C and 125°C System: J750	JESD22- A113	693(0)	693		Good Devices
	Bake 150°C, 24 hrs System: CHINEE	JIP/ IPC/JEDE C J-STD- 020E		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, 85°C and 125°C System: J750			0/693	Pass	
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: +25°C, 85°C and 125°C System: J750		231(0)	0/231	Pass	77 units / lot
	Bond Strength: Wire Pull (> 2.5 grams)		15 (0)	0/15	Pass	
	Bond Shear (>15.00 grams)		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: J750		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, 85°C and 125°C System: J750		231(0)	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		45 units
	Electrical Test: +25°C, 85°C and 125°C System: J750		45(0)	0/45	Pass	
Physical Dimensions	Physical Dimension, 10 units from 1 lot	JESD22- B100/B108	30(0)	0/30	Pass	
Bond Strength Data Assembly	Wire Pull (> 2.50 grams)	Mil.Std. 883-2011	30 (0) Wires	0/30	Pass	
	Bond Shear (>15.00 grams)	CDF-AEC- Q100-001	30 (0) bonds	0/30	Pass	

CCB 4541
Pre and Post Change Summary
PCN # JAON-04DXFD964

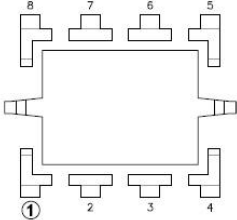
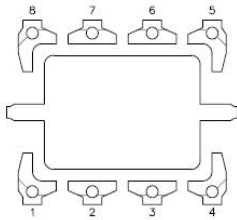
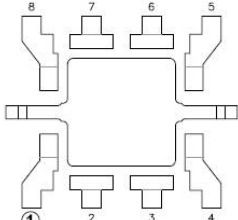
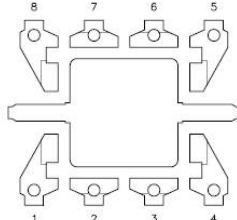


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SMART | CONNECTED | SECURE

Lead frame Comparison

Pre Change	Post Change
 <p>LF STRIP DENSITY: x140 LF PAD SIZE: 95x130 mils LEAD LOCK: NO</p>	 <p>LF STRIP DENSITY: x320 LF PAD SIZE: 95x130 mils LEAD LOCK: YES</p>
 <p>LF STRIP DENSITY: x140 LF PAD SIZE: 90x90 mils LEAD LOCK: NO</p>	 <p>LF STRIP DENSITY: x320 LF PAD SIZE: 90x90 mils LEAD LOCK: YES</p>