



Product Change Notification / ALAN-03HTZP673

Date:

16-Feb-2022

Product Category:

8-bit Microcontrollers, Analog Temperature Sensors, Analog to Digital Converters, Capacitive Touch Sensors, Charge Pump DC-to-DC Converters, Digital Potentiometers, Digital Temperature Sensors, 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 - System Supervisors/Voltage Detectors, Power MOSFET Drivers, Real-Time Clock/Calendar, RFID tag ICs - microID® ICs

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4993 Final Notice: Qualification of 3280 die attach material and new lead frame design for selected products available in 8L SOIC package assembled at MMT assembly site.

Affected CPNs:

[ALAN-03HTZP673_Affected_CPN_02162022.pdf](#)

[ALAN-03HTZP673_Affected_CPN_02162022.csv](#)

Notification Text:

Notification Body:

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 3280 die attach material and new lead frame design for

selected products available in 8L SOIC package assembled at MMT assembly site.

Pre and Post Change Summary:

		Pre Change	Post Change
Assembly Site		Microchip Technology Thailand (MMT)	Microchip Technology Thailand (MMT)
Wire Material		CuPdAu	CuPdAu
Die Attach Material		8390A	3280
Molding Compound Material		G600V	G600V
Lead-Fram e	Material	CDA194	CDA194
	Paddle Size	90x90 mils	90x90 mils
		95x130 mils	95x130 mils
	DAP Surface Prep	Bare Cu	Bare Cu
Lead-lock		No	Yes
	See 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 and die attach material.

Change Implementation Status:In Progress

Estimated First Ship Date:February 28, 2022 (date code: 2210)

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

Time Table Summary:

Workweek	February 2022				
	6	7	8	9	10
Qual Report Availability			X		
Final PCN Issue Date			X		

Estimated Implementation Date						X
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Method to Identify Change:Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History:February 16, 2022: Issued final 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_ALAN-03HTZP673_Pre and Post Change_Summary.pdf](#)
[PCN_ALAN-03HTZP673_Qual Report.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.



MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN#: ALAN-03HTZP673

Date:
January 24, 2022

Qualification of 3280 die attach material and new lead frame design for selected products available in 8L SOIC package assembled at MMT assembly site.



MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 3280 die attach material and new lead frame design for selected products available in 8L SOIC package assembled at MMT assembly site.
CN	ES363816
QUAL ID	R2100979 Rev A
MP CODE	DE0244C2XB04
Part No.	PIC12F683-E/SN
Bonding No.	BDM-002810 Rev. A
CCB#	4993
<u>Package</u>	
Type	8L SOIC
Package size	150 mils
<u>Lead Frame</u>	
Paddle size	95 x 130 mils
Material	CDA194
Surface	Bare Cu
Process	Etched
Lead Lock	Yes
Part Number	10100842
Treatment	BOT
<u>Material</u>	
Epoxy	3280
Wire	CuPdAu wire
Mold Compound	G600V
Plating Composition	Matte Sn



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-222603569.000	TMPE221526613.100	2139DU3
MMT-222603739.000	TMPE221526613.100	2139K6G
MMT-222700744.000	TMPE221526613.100	2139K6H

Result

Pass Fail _____

8L SOIC (150 mils) 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, 125°C and -40°C System: J750	JESD22-A113	693(0)	693		Good Devices
	Bake 150°C, 24 hrs System: CHINEE	JIP/		693		
	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	IPC/JEDEC		693		
	3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243	J-STD-020E		693		
	Electrical Test: +25°C and 125°C System: J750			0/693	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System: TABAI ESPEC TSA-70H Electrical Test: +125°C System: J750	JESD22-A104		231		Parts had been pre-conditioned at 260°C 77 units / lot
			231(0)	0/231	Pass	
	Stress Condition: -65°C to +150°C, 1000 Cycles System: TABAI ESPEC TSA-70H Electrical Test: +25°C System: J750		231(0)	0/231	Pass	
	Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)		15 (0)	0/15	Pass	
			15 (0)	0/15	Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X Electrical Test: +25°C System: J750	JESD22-A118		231		Parts had been pre-conditioned at 260°C 77 units / lot
			231(0)	0/231	Pass	
	Stress Condition: +130°C/85%RH, 192 hrs. System: HAST 6000X Electrical Test: +25°C System: J750		231(0)	0/231	Pass	
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 5.0 Volts System: HAST 6000X Electrical Test: + 25°C and 125°C System: J750	JESD22-A110		231		Parts had been pre-conditioned at 260°C 77 units / lot
			231(0)	0/231	Pass	
	Stress Condition: +130°C/85%RH, 192 hrs. Bias Volt: 5.0 Volts System: HAST 6000X Electrical Test: + 25°C and 125°C System: J750		231(0)	0/231	Pass	

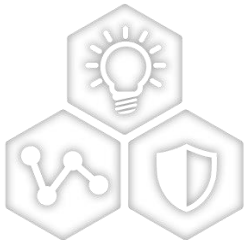
PACKAGE QUALIFICATION REPORT

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 Electrical Test: +25°C and 125°C System: J750	JESD22-A103	45(0)	45 0/45	Pass	45 units
Solderability Temp 245°C	Steam Aging: Temp 93°C, 8Hrs System: SAS-3000 Solder Dipping: Solder Temp. 245°C Solder material: Pb Free Sn 95.5Ag3.9 Cu0.6 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	J-STD-002	22 (0)	22 22 0/22	Pass	
Wire sweep	Wire sweep Inspection 15 Wires / lot	-	45(0) Wires	0/45	Pass	
Physical Dimensions	Physical Dimension, 10 units from 1 lot	JESD22-B100/B108	30(0) Units	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 4993
Pre and Post Change Summary
PCN# ALAN-03HTZP673



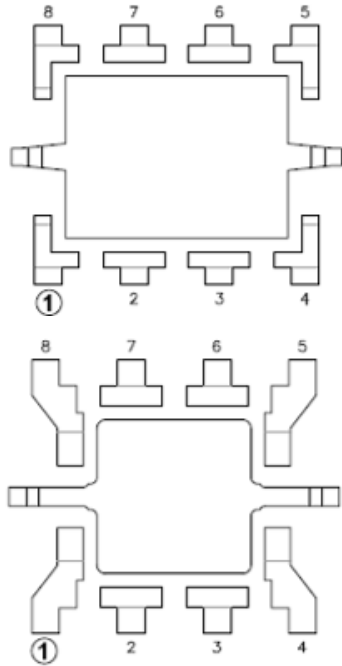
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

Pre and Post Change Summary

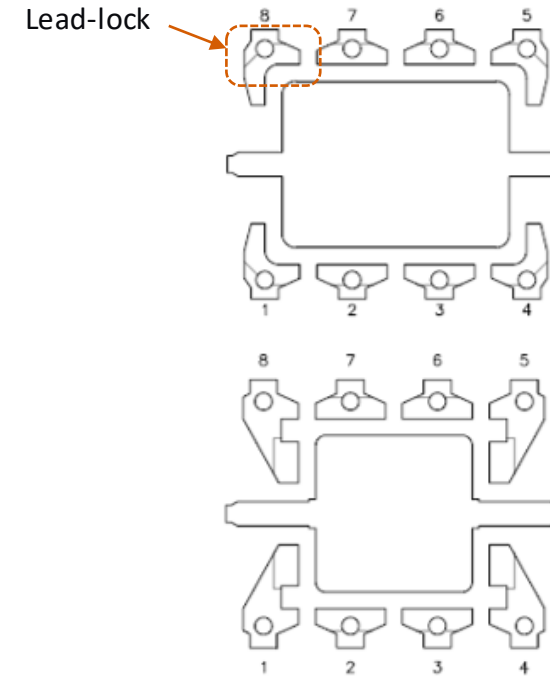
Pre Change



Lead-lock

No

Post Change



Lead-lock

Yes

Note: Mold compound materials fills the leadlockhole, which provides improved protection against moisture penetration along the edge of the leads (pins) of the package.

Affected Catalog Part Numbers (CPN)

24LC32AT-I/SN
24LC32AT-I/SNA23
24LC32AT-I/SNA27
24LC32AT-I/SNRVE
24AA32AT-I/SN
24AA32AT-I/SNRVE
34A47FT-I/SN
24LC32AT-E/SN
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