



## Product Change Notification / ALAN-03HTZP673

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### 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.

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  
PIC12F629-C/SN  
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PIC12F629-I/SN102  
PIC12F629-I/SN148  
PIC12F629-I/SN206  
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# CCB 4993

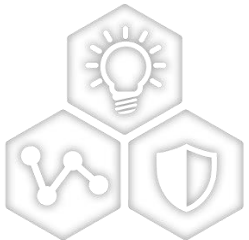
## Pre and Post Change Summary

### PCN# ALAN-03HTZP673



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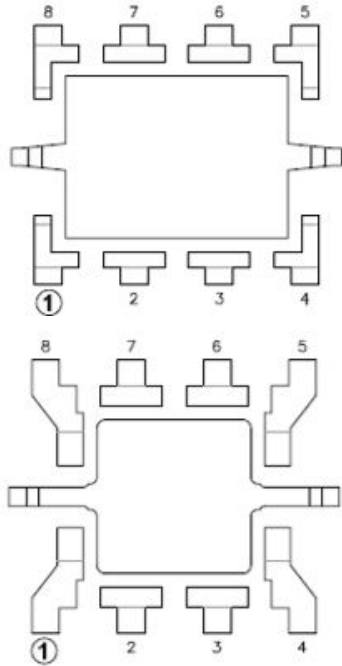
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

# Pre and Post Change Summary

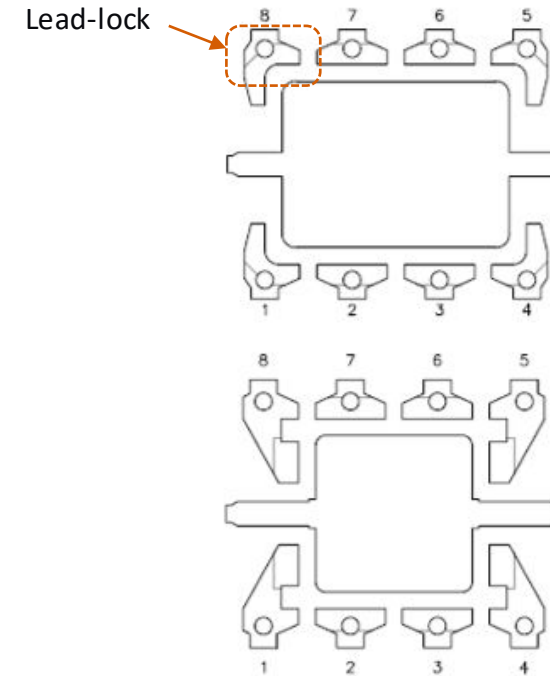
## Pre Change



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.



**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

<b>Purpose</b>	Qualification of 3280 die attach material and new lead frame design for selected products available in 8L SOIC package assembled at MMT assembly site.
<b>CN</b>	ES363816
<b>QUAL ID</b>	R2100979 Rev A
<b>MP CODE</b>	DE0244C2XB04
<b>Part No.</b>	PIC12F683-E/SN
<b>Bonding No.</b>	BDM-002810 Rev. A
<b>CCB#</b>	4993
<b><u>Package</u></b>	
<b>Type</b>	8L SOIC
<b>Package size</b>	150 mils
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	95 x 130 mils
<b>Material</b>	CDA194
<b>Surface</b>	Bare Cu
<b>Process</b>	Etched
<b>Lead Lock</b>	Yes
<b>Part Number</b>	10100842
<b>Treatment</b>	BOT
<b><u>Material</u></b>	
<b>Epoxy</b>	3280
<b>Wire</b>	CuPdAu wire
<b>Mold Compound</b>	G600V
<b>Plating Composition</b>	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
<b>Precondition Prior Perform Reliability Tests (At MSL Level 1)</b>	<b>Electrical Test:</b> +25°C, 125°C and -40°C System: J750	JESD22-A113	693(0)	693		Good Devices
	Bake 150°C, 24 hrs System: CHINEE	JIP/IPC/JEDEC		693		
	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	J-STD-020E		693		
	3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243			693		
	<b>Electrical Test:</b> +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	
<b>Temp Cycle</b>	<b>Stress Condition:</b> -65°C to +150°C, 500 Cycles System: TABAI ESPEC TSA-70H <b>Electrical Test:</b> +125°C System: J750	JESD22-A104		231		Parts had been pre-conditioned at 260°C 77 units / lot	
			231(0)	0/231	Pass		
	<b>Stress Condition:</b> -65°C to +150°C, 1000 Cycles System: TABAI ESPEC TSA-70H <b>Electrical Test:</b> +25°C System: J750			231			
			231(0)	0/231	Pass		
<b>UNBIASED-HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: HAST 6000X <b>Electrical Test:</b> +25°C System: J750	JESD22-A118		231		Parts had been pre-conditioned at 260°C 77 units / lot	
			231(0)	0/231	Pass		
	<b>Stress Condition:</b> +130°C/85%RH, 192 hrs. System: HAST 6000X <b>Electrical Test:</b> +25°C System: J750			231			
			231(0)	0/231	Pass		
<b>HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. <b>Bias Volt:</b> 5.0 Volts System: HAST 6000X <b>Electrical Test:</b> + 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		
	<b>Stress Condition:</b> +130°C/85%RH, 192 hrs. <b>Bias Volt:</b> 5.0 Volts System: HAST 6000X <b>Electrical Test:</b> + 25°C and 125°C System: J750			231			
			231(0)	0/231	Pass		

## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: SHEL LAB  <b>Electrical Test:</b> +25°C and 125°C System: J750	JESD22-A103	45(0)	45 0/45	Pass	45 units
<b>Solderability Temp 245°C</b>	<b>Steam Aging:</b> 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	
<b>Wire sweep</b>	Wire sweep Inspection 15 Wires / lot	-	45(0) Wires	0/45	Pass	
<b>Physical Dimensions</b>	Physical Dimension, 10 units from 1 lot	JESD22-B100/B108	30(0) Units	0/30	Pass	
<b>Bond Strength Data Assembly</b>	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	