



## 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
-------------------------------------	--	--	--	--	--	---

**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.

### **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)

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  
PIC12F629-E/SN244  
PIC12F629-E/SN  
PIC12F629-I/SN102  
PIC12F629-I/SN148  
PIC12F629-I/SN206  
PIC12F629-I/SN207  
PIC12F629-I/SN208  
PIC12F629-I/SN209  
PIC12F629-I/SN  
HA688-I/SN  
PIC12F629-I/SNC24  
PIC12F629T-C/SN  
PIC12F629T-I/SN039  
PIC12F629T-I/SN065  
PIC12F629T-I/SN069  
PIC12F629T-I/SN084  
PIC12F629T-I/SN091  
PIC12F629T-I/SN102  
PIC12F629T-I/SN138  
PIC12F629T-I/SN148  
PIC12F629T-I/SN211  
PIC12F629T-I/SN213  
PIC12F629T-I/SN214  
PIC12F629T-I/SN220  
PIC12F629T-I/SN232  
PIC12F629T-I/SN233  
PIC12F629T-I/SN241  
PIC12F629T-I/SN242  
PIC12F629T-I/SN245  
PIC12F629T-I/SN247  
PIC12F629T-I/SN248  
PIC12F629T-I/SN249  
PIC12F629T-I/SN250  
PIC12F629T-I/SN  
PIC12F629T-I/SNC19  
PIC12F629T-E/SN244  
PIC12F629T-E/SN246

PIC12F629T-E/SN  
25LC160B-E/SN  
25LC160B-I/SN  
25AA160B-I/SN  
25LC160BT-I/SN  
25AA160BT-I/SN  
25LC160BT-E/SN  
25LC080B-E/SN  
25LC080B-I/SN  
25AA080B-I/SN  
25LC080BT-I/SN  
25AA080BT-I/SN  
25AA080BT-I/SNB21  
25LC080BT-E/SN  
25LC080A-E/SN  
25LC080A-I/SN  
25AA080A-I/SN  
25LC080A-H/SN  
25LC080AT-H/SN  
25LC080AT-I/SN  
25AA080AT-I/SN  
25LC080AT-E/SN  
25LC160A-E/SN  
25AA160A-I/SN103  
25LC160A-I/SN  
25AA160A-I/SN  
25AA160AT-I/SN103  
25LC160AT-I/SN  
25LC160AT-I/SNA79  
25AA160AT-I/SN  
25LC160AT-E/SN  
93LC46A/SN  
93LC46AX/SN  
93LC46A-E/SN  
93LC46AX-E/SN  
93LC46A-I/SN  
93LC46AX-I/SN  
93AA46A-I/SN  
93AA46AX-I/SN  
93AA46AE48-I/SN  
93LC46AT/SN  
93LC46AXT/SN  
93LC46AT-I/SN  
93LC46AXT-I/SN  
93AA46AT-I/SN  
93AA46AXT-I/SN  
93AA46AE48T-I/SN  
93LC46AT-E/SN  
93LC46AXT-E/SN

93LC46B-E/SN  
93LC46BX-E/SN  
93AA46B-I/SN  
93AA46BX-I/SN  
93AA46BT-I/SN  
93AA46BXT-I/SN  
93LC46BT-E/SN  
93LC46BXT-E/SN  
93C46B/SN  
93C46BX/SN  
93C46B-E/SN  
93C46BX-E/SN  
93C46B-I/SN  
93C46BX-I/SN  
93C46BT/SN  
93C46BXT/SN  
93C46BT-I/SN  
93C46BXT-I/SN  
93C46BT-E/SN  
93C46BXT-E/SN  
93C46A-E/SN  
93C46AX-E/SN  
93C46A-I/SN  
93C46AX-I/SN  
93C46AT-I/SN  
93C46AXT-I/SN  
93C46AT-E/SN  
93C46AXT-E/SN  
93LC46C-E/SN  
93LC46CX-E/SN  
93LC46C-I/SN  
93LC46CX-I/SN  
93AA46C-I/SN  
93AA46CX-I/SN  
93LC46CT-I/SN  
93LC46CXT-I/SN  
93AA46CT-I/SN  
25LC256T-I/SNRVB  
25AA256T-I/SN  
25AA256T-I/SNB31  
25LC256T-E/SN  
25AA256T-E/SN  
25LC320A-E/SN  
25LC320A-I/SN  
25AA320A-I/SN  
25AA320A-I/SNB22  
25LC320A-H/SN  
25LC320AT-H/SN  
25LC320AT-I/SN

25AA320AT-I/SN  
25AA320AT-I/SNB22  
25LC320AT-E/SN  
25LC160D-E/SN  
25AA160D-E/SN  
25LC160D-I/SN  
25AA160D-I/SN  
25LC160D-H/SN  
25LC160DT-H/SN  
25LC160DT-I/SN  
25AA160DT-I/SN  
25LC160DT-E/SN  
25LC160DT-E/SN16KA21  
25AA160DT-E/SN  
25LC080D-E/SN  
25LC080D-I/SN  
25AA080D-I/SN  
25LC080D-H/SN  
25LC080DT-H/SN  
25LC080DT-I/SN  
25AA080DT-I/SN  
25AA080DT-I/SN-SCI  
25LC080DT-E/SN  
25LC160C-E/SN  
25LC160C-I/SN  
25AA160C-I/SN  
25LC160C-H/SN  
25LC160CT-H/SN  
25LC160CT-I/SN  
25AA160CT-I/SN  
25LC160CT-E/SN  
25LC080C-E/SN  
25LC080C-I/SN  
25AA080C-I/SN  
25LC080C-H/SN  
25LC080CT-H/SN  
25LC080CT-I/SN  
25AA080CT-I/SN  
25LC080CT-E/SN  
MCP4131-502E/SN  
MCP4131-103E/SN  
MCP4131-104E/SN  
MCP4131-503E/SN  
MCP4141-502E/SN  
MCP4141-103E/SN  
MCP4141-104E/SN  
MCP4141-503E/SN  
MCP4151-502E/SN  
MCP4151-103E/SN

MCP4151-104E/SN  
MCP4151-503E/SN  
MCP4161-502E/SN  
MCP4161-103E/SN  
MCP4161-104E/SN  
MCP4161-503E/SN  
MCP4132-502E/SN  
MCP4132-103E/SN  
MCP4132-104E/SN  
MCP4132-503E/SN  
MCP4142-502E/SN  
MCP4142-103E/SN  
MCP4142-104E/SN  
MCP4142-503E/SN  
MCP4152-502E/SN  
MCP4152-103E/SN  
MCP4152-104E/SN  
MCP4152-503E/SN  
MCP4162-502E/SN  
MCP4162-103E/SN  
MCP4162-104E/SN  
MCP4162-503E/SN  
MCP4131T-502E/SN  
MCP4131T-103E/SN  
MCP4131T-104E/SN  
MCP4131T-503E/SN  
MCP4141T-502E/SN  
MCP4141T-103E/SN  
MCP4141T-104E/SN  
MCP4141T-503E/SN  
MCP4151T-502E/SN  
MCP4151T-103E/SN  
MCP4151T-104E/SN  
MCP4151T-503E/SN  
MCP4161T-502E/SN  
MCP4161T-103E/SN  
MCP4161T-104E/SN  
MCP4161T-503E/SN  
MCP4132T-502E/SN  
MCP4132T-103E/SN  
MCP4132T-104E/SN  
MCP4132T-503E/SN  
MCP4142T-502E/SN  
MCP4142T-103E/SN  
MCP4142T-104E/SN  
MCP4142T-503E/SN  
MCP4152T-502E/SN  
MCP4152T-103E/SN  
MCP4152T-104E/SN



MCP4152T-503E/SN  
MCP4162T-502E/SN  
MCP4162T-103E/SN  
MCP4162T-104E/SN  
MCP4162T-503E/SN  
25LC128-E/SN  
25AA128-E/SN  
25LC128-I/SN  
25AA128-I/SN  
25LC128-H/SN  
25LC128T-H/SN  
25LC128T-I/SN  
25AA128T-I/SN  
25AA128T-I/SNRVA  
25LC128T-E/SN  
25LC128T-E/SNRVA  
25AA128T-E/SN  
25LC640A-E/SN  
25AA640A-E/SN  
25LC640A-M/SN  
25LC640A-I/SN  
25AA640A-I/SN  
25LC640A-H/SN  
25LC640AT-H/SN  
25LC640AT-I/SN  
25AA640AT-I/SN  
25AA640AT-I/SNB23  
25LC640AT-M/SN  
25LC640AT-E/SN  
25AA640AT-E/SN  
PIC12F683-E/SN084  
PIC12F683-E/SN  
93AA46CXT-I/SN  
93LC46CT-E/SN  
93LC46CXT-E/SN  
93LC56A/SN  
93LC56B/SN  
93LC56BX/SN  
93LC56C-E/SN  
93LC56CX-E/SN  
93LC56A-E/SN  
93LC56AX-E/SN  
93LC56B-E/SN  
93LC56BX-E/SN  
93LC56C-I/SN  
93LC56CX-I/SN  
93AA56C-I/SN  
93AA56CX-I/SN  
93LC56A-I/SN

93LC56AX-I/SN  
93AA56A-I/SN  
93AA56AX-I/SN  
93LC56B-I/SN  
93LC56BX-I/SN  
93AA56B-I/SN  
93AA56BX-I/SN  
93LC56AT/SN  
93LC56BT/SN  
93LC56BXT/SN  
93LC56CT-I/SN  
93LC56CXT-I/SN  
93AA56CT-I/SN  
93AA56CXT-I/SN  
93LC56AT-I/SN  
93LC56AXT-I/SN  
93AA56AT-I/SN  
93AA56AXT-I/SN  
93LC56BT-I/SN  
93LC56BXT-I/SN  
93AA56BT-I/SN  
93AA56BXT-I/SN  
93LC56CT-E/SN  
93LC56CXT-E/SN  
93LC56AT-E/SN  
93LC56AXT-E/SN  
93LC56BT-E/SN  
93LC56BXT-E/SN  
93LC66A/SN  
93LC66AX/SN  
93LC66B/SN  
93LC66BX/SN  
93LC66C-E/SN  
93LC66CX-E/SN  
93LC66A-E/SN  
93LC66AX-E/SN  
93LC66B-E/SN  
93LC66BX-E/SN  
93LC66C-I/SN  
93LC66CX-I/SN  
93AA66C-I/SN  
93AA66CX-I/SN  
93LC66A-I/SN  
93LC66AX-I/SN  
93AA66A-I/SN  
93AA66AX-I/SN  
93LC66B-I/SN  
93LC66B-I/SN15K  
93LC66BX-I/SN

93AA66B-I/SN  
93AA66BX-I/SN  
93LC66AT/SN  
93LC66BT/SN  
93LC66CT-I/SN  
93LC66CXT-I/SN  
93AA66CT-I/SN  
93AA66CXT-I/SN  
93LC66AT-I/SN  
93LC66AXT-I/SN  
93AA66AT-I/SN  
93AA66AXT-I/SN  
93LC66BT-I/SN  
93LC66BT-I/SN15K  
93LC66BXT-I/SN  
93AA66BT-I/SN  
93AA66BXT-I/SN  
93LC66CT-E/SN  
93LC66CXT-E/SN  
93LC66AT-E/SN  
93LC66AXT-E/SN  
93LC66BT-E/SN  
93LC66BXT-E/SN  
93C46C-E/SN  
93C46C-I/SN  
93C46CT-I/SN  
93C46CT-E/SN  
93C56C-E/SN  
93C56A-E/SN  
93C56B-E/SN  
93C56C-I/SN  
93C56A-I/SN  
93C56B-I/SN  
93C56CT-I/SN  
93C56AT-I/SN  
93C56BT-I/SN  
93C56CT-E/SN  
93C56AT-E/SN  
93C56BT-E/SN  
93C66C-E/SN  
93C66A-E/SN  
93C66B-E/SN  
93C66C-I/SN  
93C66A-I/SN  
93C66CT-I/SN  
93C66AT-I/SN  
93C66CT-E/SN  
93C66AT-E/SN  
93C66BT-E/SN

MCP2122-E/SN  
MCP2122T-E/SN  
93LC76C-E/SN  
93LC76C-I/SN  
93AA76C-I/SN  
93LC76CT-I/SN  
93AA76CT-I/SN  
93LC76CT-E/SN  
93LC86C-E/SN  
93LC86C-I/SN  
93AA86C-I/SN  
93LC86CT-I/SN  
93AA86CT-I/SN  
93LC86CT-E/SN  
93C76C-E/SN  
93C76C-I/SN  
93C76CT-I/SN  
93C76CT-E/SN  
93C86C-E/SN  
93C86C-I/SN  
93C86CT-I/SN  
93C86CT-E/SN  
93LC76A-E/SN  
93LC76B-E/SN  
93LC76A-I/SN  
93AA76A-I/SN  
93LC76B-I/SN  
93AA76B-I/SN  
93LC76AT-I/SN  
93AA76AT-I/SN  
93LC76BT-I/SN  
93AA76BT-I/SN  
93LC76AT-E/SN  
93LC76BT-E/SN  
93LC86A-E/SN  
93LC86B-E/SN  
93LC86A-I/SN  
93AA86A-I/SN  
93LC86B-I/SN  
93AA86B-I/SN  
93LC86AT-I/SN  
93AA86AT-I/SN  
93LC86BT-I/SN  
93AA86BT-I/SN  
93LC86AT-E/SN  
93LC86BT-E/SN  
93C76A-E/SN  
93C76B-E/SN  
93C76A-I/SN

93C76B-I/SN  
93C76AT-I/SN  
93C76BT-I/SN  
93C76AT-E/SN  
93C76BT-E/SN  
93C86A-E/SN  
93C86B-E/SN  
93C86A-I/SN  
93C86B-I/SN  
93C86AT-I/SN  
93C86BT-I/SN  
93C86AT-E/SN  
93C86BT-E/SN  
MCP4021-202E/SN  
MCP4021-502E/SN  
MCP4021-103E/SN  
MCP4021-503E/SN  
MCP4021T-202E/SN  
MCP4021T-502E/SN  
MCP4021T-103E/SN  
MCP4021T-503E/SN  
MCP4011-202E/SN  
MCP4011-502E/SN  
MCP4011-103E/SN  
MCP4011-503E/SN  
MCP4011T-202E/SN  
MCP4011T-502E/SN  
MCP4011T-103E/SN  
MCP4011T-503E/SN  
25LC256-E/SN  
25AA256-E/SN  
25LC256-I/SN  
25LC256-I/SNRVB  
25AA256-I/SN  
25LC256-H/SN  
25LC256T-H/SN  
25LC256T-I/SN  
PIC12F683-I/SN075  
PIC12F683-I/SN  
PIC12F683T-I/SN072  
PIC12F683T-I/SN091  
PIC12F683T-I/SN  
PIC12F683T-E/SN084  
PIC12F683T-E/SN092  
PIC12F683T-E/SN098  
PIC12F683T-E/SN  
PIC12F635-E/SN  
PIC12F635-I/SN057  
PIC12F635-I/SN

PIC12F635T-I/SN050  
PIC12F635T-I/SN058  
PIC12F635T-I/SN  
PIC12F510-E/SN  
PIC12F510-I/SN  
PIC12F510-I/SNC06  
MCV08A-I/SN  
PIC12F510T-I/SN026  
PIC12F510T-I/SN041  
PIC12F510T-I/SN058  
PIC12F510T-I/SN064  
PIC12F510T-I/SN065  
PIC12F510T-I/SN073  
PIC12F510T-I/SN074  
PIC12F510T-I/SN075  
PIC12F510T-I/SN077  
PIC12F510T-I/SN078  
PIC12F510T-I/SN079  
PIC12F510T-I/SN  
PIC12F510T-E/SN070  
PIC12F510T-E/SN  
PIC12F519-E/SN  
PIC12F519-I/SN039  
PIC12F519-I/SN041  
PIC12F519-I/SN  
PIC12F519T-I/SN025  
PIC12F519T-I/SN029  
PIC12F519T-I/SN030  
PIC12F519T-I/SN031  
PIC12F519T-I/SN033  
PIC12F519T-I/SN035  
PIC12F519T-I/SN037  
PIC12F519T-I/SN039  
PIC12F519T-I/SN040  
PIC12F519T-I/SN041  
PIC12F519T-I/SN042  
PIC12F519T-I/SN044  
PIC12F519T-I/SN047  
PIC12F519T-I/SN048  
PIC12F519T-I/SN  
PIC12F519T-E/SN  
PIC12F617-E/SN020  
PIC12F617-E/SN031  
PIC12F617-E/SN033  
PIC12F617-E/SN034  
PIC12F617-E/SN  
PIC12F617-I/SN030  
PIC12F617-I/SN032  
PIC12F617-I/SN053

PIC12F617-I/SN  
PIC12F617-I/SNC15  
PIC12F617T-I/SN022  
PIC12F617T-I/SN028  
PIC12F617T-I/SN030  
PIC12F617T-I/SN032  
PIC12F617T-I/SN038  
PIC12F617T-I/SN044  
PIC12F617T-I/SN053  
PIC12F617T-I/SN059  
PIC12F617T-I/SN  
PIC12F617T-I/SNC15  
PIC12F617T-E/SN020  
PIC12F617T-E/SN024  
PIC12F617T-E/SN026  
PIC12F617T-E/SN027  
PIC12F617T-E/SN031  
PIC12F617T-E/SN033  
PIC12F617T-E/SN034  
PIC12F617T-E/SN036  
PIC12F617T-E/SN037  
PIC12F617T-E/SN050  
PIC12F617T-E/SN051  
PIC12F617T-E/SN052  
PIC12F617T-E/SN055  
PIC12F617T-E/SN067  
PIC12F617T-E/SN071  
PIC12F617T-E/SN  
TCN75AVOA  
MCP9801-M/SN  
MCP9801-M/SNRC2  
MCP9801T-M/SN  
MCP9801T-M/SNRC2  
TCN75AVOA713  
MCP9803-M/SN  
MCP9803-M/SNRC2  
MCP9803T-M/SN  
MCP9803T-M/SNRC2  
MCP3550-50E/SN  
MCP3550-60E/SN  
MCP3550T-50E/SN  
MCP3550T-60E/SN  
MCP3551-E/SN  
MCP3551T-E/SN  
MCP3553-E/SN  
MCP3553T-E/SN  
MCP4822-E/SN  
MCP4802-E/SN  
MCP4812-E/SN

MCP4822T-E/SN  
MCP4802T-E/SN  
MCP4812T-E/SN  
PIC12F508-E/SN  
PIC12F508-I/SN038  
PIC12F508-I/SN080  
PIC12F508-I/SN  
HA1100/SN  
PIC12F508T-I/SN020  
MCP3426A1-E/SN  
MCP3422A1T-E/SN  
MCP3426A1T-E/SN  
MCP3422A2-E/SN  
MCP3426A2-E/SN  
MCP3422A2T-E/SN  
MCP3426A2T-E/SN  
MCP3422A3-E/SN  
MCP3426A3-E/SN  
MCP3422A3T-E/SN  
MCP3426A3T-E/SN  
MCP3422A4-E/SN  
MCP3426A4-E/SN  
MCP3422A4T-E/SN  
MCP3426A4T-E/SN  
MCP3422A5-E/SN  
MCP3426A5-E/SN  
MCP3422A5T-E/SN  
MCP3426A5T-E/SN  
MCP3422A6-E/SN  
MCP3426A6-E/SN  
MCP3422A6T-E/SN  
MCP3426A6T-E/SN  
MCP3422A7-E/SN  
MCP3426A7-E/SN  
MCP3422A7T-E/SN  
MCP3426A7T-E/SN  
24LC08BH-E/SN  
24LC08BH-I/SN  
24AA08H-I/SN  
24LC08BHT-I/SN  
24AA08HT-I/SN  
24LC08BHT-E/SN  
24AA16-E/SN  
24LC16B-M/SN  
24LC16BT/SNA79  
24AA16T-I/SNB22  
24LC16BT-M/SN  
24AA16T-E/SN  
24LC16BH-E/SN



24LC16BH-I/SN  
24AA16H-I/SN  
24LC16BHT-I/SN  
24AA16HT-I/SN  
24LC16BHT-E/SN  
24AA32AT-I/SNB79  
24LC32AF-E/SN  
24LC32AF-I/SN  
24AA32AF-I/SN  
24LC32AFT-I/SN  
24AA32AFT-I/SN  
24LC32AFT-E/SN  
24AA64-E/SN  
24LC64-I/SN100  
24AA64-I/SN101  
24FC64-I/SN  
24LC64T-I/SN100  
24AA64T-I/SN101  
24LC64T-I/SNA79  
24AA64T-I/SNB79  
24FC64T-I/SN  
24LC64T-E/SNA31  
24AA64T-E/SN  
24LC64F-E/SN  
24LC64F-I/SN  
24AA64F-I/SN  
24FC64F-I/SN  
24LC64FT-I/SN  
24AA64FT-I/SN  
24FC64FT-I/SN  
24LC64FT-E/SN  
24FC128-E/SN  
24LC128-I/SNRVF  
24LC128T-I/SNRVF  
24AA128T-I/SNRVF  
24FC128T-E/SN  
24LC04BT-I/SNA79  
24LC04BH-E/SN  
24LC04BH-I/SN  
24AA04H-I/SN  
24LC04BHT-I/SN  
24AA04HT-I/SN  
24LC04BHT-E/SN  
24LC512-E/SN  
24LC512-I/SN  
24AA512-I/SN  
24FC512-I/SN  
24FC512-I/SNC79  
24FC512T-I/SN101

24LC512T-I/SN  
24AA512T-I/SN  
24FC512T-I/SN  
24FC512T-I/SNC21  
24FC512T-I/SNC79  
24LC512T-E/SN  
24AA256-E/SN  
24FC256-E/SN  
24AA256-I/SN104  
24AA256T-I/SN104  
24AA256T-I/SN105  
24LC256T-I/SNRVF  
24AA256T-E/SN  
24FC256T-E/SN  
24AA256UID-I/SN  
24AA256UIDT-I/SN  
MCP6N11-001E/SN  
MCP6N11T-001E/SN  
MCP6N11-002E/SN  
MCP6N11T-002E/SN  
MCP6N11-005E/SN  
MCP6N11T-005E/SN  
MCP6N11-010E/SN  
MCP6N11T-010E/SN  
MCP6N11-100E/SN  
MCP6N11T-100E/SN  
MCP4801-E/SN  
MCP4811-E/SN  
MCP4821-E/SN  
MCP4901-E/SN  
MCP4911-E/SN  
MCP4921-E/SN  
MCP4801T-E/SN  
MCP4811T-E/SN  
MCP4821T-E/SN  
MCP4901T-E/SN  
MCP4911T-E/SN  
MCP4921T-E/SN  
PIC12F752-E/SN  
PIC12F752-I/SN  
PIC12F752T-I/SN024  
PIC12F752T-I/SN  
PIC12HV752-E/SN  
PIC12HV752-I/SN  
MCP6482-E/SN  
MCP6492-E/SN  
MCP6472-E/SN  
MCP6482T-E/SN  
MCP6492T-E/SN

MCP6472T-E/SN  
MCP6422-E/SN  
MCP6422T-E/SN  
34AA04-E/SN  
34AA04-I/SN  
34AA04T-I/SN  
34AA04T-E/SN  
24AA044-E/SN  
24AA044-I/SN  
24AA044T-I/SN  
24AA044T-E/SN  
11LC010-E/SN  
PIC12F1571-I/SN  
PIC12F1572-I/SN  
PIC12F1572T-I/SN020  
PIC12F1571T-I/SN030  
PIC12F1572T-I/SN034  
PIC12F1571T-I/SN038  
PIC12F1571T-I/SN042  
PIC12F1572T-I/SN048  
PIC12F1572T-I/SN052  
PIC12F1571T-I/SN056  
PIC12F1571T-I/SN057  
PIC12F1571T-I/SN063  
PIC12F1572T-I/SN064  
PIC12F1571T-I/SN  
PIC12F1572T-I/SN  
PIC12F1572T-E/SN048  
PIC12F1571T-E/SN  
PIC12F1572T-E/SN  
PIC12LF1571-E/SN  
PIC12LF1572-E/SN  
PIC12LF1572-I/SN033  
PIC12LF1571-I/SN  
PIC12LF1572-I/SN  
PIC12LF1571T-I/SN026  
PIC12LF1571T-I/SN028  
PIC12LF1571T-I/SN029  
PIC12LF1571T-I/SN031  
PIC12LF1572T-I/SN033  
PIC12LF1571T-I/SN  
PIC12LF1572T-I/SN  
PIC12LF1572T-E/SN  
MCP2551-E/SN  
MCP2551-I/SN  
MCP2551T-I/SN  
MCP2551T-E/SN  
MCP2003-E/SN  
MCP2003T-E/SN

MCP2004-E/SN  
MCP2004T-E/SN  
MCP2003A-E/SN  
MCP2003AT-E/SN  
MCP2004A-E/SN  
MCP2004AT-E/SN  
MCP2025-500E/SN  
MCP2025T-500E/SN  
MCP2025-330E/SN  
MCP2025T-330E/SN  
RE46C100S8F  
RE46C101S8F  
RE46C101S8TF  
RE46C100S8TF  
RE46C108S8F  
RE46C108S8TF  
RE46C317S8F  
RE46C317S8TF  
RE46C318S8F  
RE46C318S8TF  
TC1044SCOA  
TC7660SCOA  
TC7662BCOA  
TC7660SVOA  
TC1044SEOA  
TC7660SEOA  
TC7662BEOA  
TC1044SEOA713  
TC7660SEOA713  
TC7660SEOA713BAA  
TC7660SEOA713BAB  
TC7662BEOA713  
TC1044SCOA713  
TC7660SCOA713  
TC7662BCOA713  
TC7660SVOA713  
TC7660SEOA723  
TC7660COA  
TC7660EOA  
TC7660MEOA  
TC7660EOA713  
TC7660MEOA713  
TC7660COA713  
TC7660EOA723  
TC622COA  
TC622VOA  
TC622EOA  
TC622EOA713  
TC622COA713

TC622VOA713  
MCP14E6-E/SN  
MCP14E6T-E/SN  
MCP14E7-E/SN  
MCP14E7T-E/SN  
MCP14E8-E/SN  
MCP14E8T-E/SN  
MCP14E9-E/SN  
MCP14E9T-E/SN  
MCP14E10-E/SN  
MCP14E10T-E/SN  
MCP14E11-E/SN  
MCP14E11T-E/SN  
25LC040/SN  
25C040/SN  
25C040-E/SN  
25LC040-I/SN  
25AA040-I/SN  
25C040-I/SN  
25LC040T/SN  
25C040T/SN  
25LC040T-I/SN  
25AA040T-I/SN  
25C040T-I/SN  
25C040T-E/SN  
93LC46BT-I/SNRVA  
93C66B-I/SN  
93C66BT-I/SN  
24C00/SN  
24C00-E/SN  
24C00-I/SN  
24C00T/SN  
24C00T-I/SN  
24C00T-E/SN  
24LC00/SN  
24AA00/SN  
24LC00-I/SN  
24AA00-I/SN  
24LC00T/SN  
24AA00T/SN  
24LC00T-I/SN  
24AA00T-I/SN  
93LC46/SN  
93LC46X/SN  
93LC46B/SN  
93LC46BX/SN  
93LC46-I/SN  
93LC46X-I/SN  
93LC46B-I/SN

93LC46BX-I/SN  
93AA46-I/SN  
93AA46/SN  
93LC46T/SN  
93LC46XT/SN  
93LC46BT/SN  
93LC46BXT/SN  
93AA46T/SN  
93LC46T-I/SN  
93LC46XT-I/SN  
93LC46BT-I/SN  
93LC46BXT-I/SN  
93AA46T-I/SN  
93LC56/SN  
93LC56X/SN  
93LC66/SN  
93LC66X/SN  
93AA66/SN  
93AA66X/SN  
93C56-E/SN  
93C66-E/SN  
93LC56-I/SN  
93LC66-I/SN  
93LC66X-I/SN  
93AA56-I/SN  
93AA66-I/SN  
93AA56/SN  
93LC56T/SN  
93LC66T/SN  
93AA56T/SN  
93AA66T/SN  
93AA66XT/SN  
93LC56T-I/SN  
93LC66T-I/SN  
93LC66XT-I/SN  
93AA56T-I/SN  
93AA66T-I/SN  
93C56T-E/SN  
93C66T-E/SN  
25LC080/SN  
25AA080/SN  
25C080/SN  
25C080-E/SN  
25LC080-I/SN  
25AA080-I/SN  
25C080-I/SN  
25LC080T/SN  
25AA080T/SN  
25C080T/SN

25LC080T-I/SN  
25AA080T-I/SN  
25C080T-I/SN  
25C080T-E/SN  
MCP120-485I/SN  
MCP120T-270I/SN  
MCP120T-300I/SN  
MCP120T-315I/SN  
MCP120T-450I/SN  
MCP120T-460I/SN  
MCP120T-475I/SN  
MCP120T-485I/SN  
MCP607-I/SN  
MCP607T-I/SN  
MCP607T-I/SNA21  
MCP6021-E/SN  
MCP6023-E/SN  
MCP6021-I/SN  
MCP6023-I/SN  
MCP6021T-I/SN  
MCP6023T-I/SN  
MCP6021T-E/SN  
MCP6023T-E/SN  
MCP6022-E/SN  
MCP6022-I/SN  
MCP6022T-I/SN  
MCP6022T-E/SN  
MCP616-I/SN  
MCP618-I/SN  
MCP616T-I/SN  
MCP618T-I/SN  
MCP617-I/SN  
MCP617T-I/SN  
MCP6541-E/SN  
MCP6543-E/SN  
MCP6541-I/SN  
MCP6543-I/SN  
MCP6541T-I/SN  
MCP6543T-I/SN  
MCP6541T-E/SN  
MCP6543T-E/SN  
MCP6542-E/SN  
MCP6542-I/SN  
MCP6542T-I/SN  
MCP6542T-E/SN  
MCP6546-E/SN  
MCP6548-E/SN  
MCP6546-I/SN  
MCP6548-I/SN

MCP6546T-I/SN  
MCP6548T-I/SN  
MCP6546T-E/SN  
MCP6548T-E/SN  
MCP6547-E/SN  
MCP6547-I/SN  
MCP6547T-I/SN  
MCP6547T-E/SN  
MCP6S21-I/SN  
MCP6S21T-I/SN  
MCP6S22-I/SN  
MCP6S22T-I/SN  
MCP6272-E/SN  
MCP6282-E/SN  
MCP6292-E/SN  
MCP6272T-E/SN  
MCP6282T-E/SN  
MCP6292T-E/SN  
MCP6L92T-E/SN  
MCP6275-E/SN  
MCP6285-E/SN  
MCP6295-E/SN  
MCP6275T-E/SN  
MCP6285T-E/SN  
MCP6295T-E/SN  
MCP6L72T-E/SN  
MCP6271-E/SN  
MCP6273-E/SN  
24AA256-I/SN  
24AA256-I/SNRVE  
24LC256-I/SNREL  
24LC256T-I/SN  
24LC256T-I/SNRVE  
24AA256T-I/SN  
24AA256T-I/SNRVE  
24LC256T-E/SN  
24LC256T-E/SNRVE  
24FC256-I/SN  
24FC256T-I/SN  
24LC128-E/SN  
24LC128-I/SN  
24LC128-I/SNRVE  
24AA128-I/SN  
24LC128T-I/SN  
24LC128T-I/SNRVE  
24AA128T-I/SN  
24LC128T-E/SN  
24FC128-I/SN  
24FC128-I/SNRVE



24FC128T-I/SN  
24FC128T-I/SNRVE  
24AA64/SN  
24LC64-E/SN  
24LC64-I/SN  
24AA64-I/SN  
24LC64-I/SNRVE  
24AA64T/SN  
24LC64T-I/SN  
24LC64T-I/SNA22  
24AA64T-I/SN  
34A83GT-I/SN  
24LC64T-I/SNRVE  
24LC64T-E/SN  
24LC08B/SN  
24AA08/SN  
24LC08B-E/SN  
24LC08B-I/SNRVE  
24LC08B-I/SNA27  
24AA08-I/SN  
24LC08BT/SNRVE  
24AA08T/SN  
24LC08BT-I/SNRVE  
24LC08BT-I/SNA23  
24LC08BT-I/SNA27  
24AA08T-I/SN  
24LC08BT-E/SN  
24LC08B-I/SN  
24LC08BT/SN  
24LC08BT-I/SN  
24LC16B/SN  
24LC16B-E/SN  
24LC16B-E/SNA26  
24LC16B-I/SN  
24AA16-I/SN  
24AA16-I/SNB22  
24LC16BT/SN  
24LC16BT/SNA31  
24LC16BT/SNRVE  
24LC16BT-I/SN  
24LC16BT-I/SNRVE  
24AA16T-I/SN  
24LC16BT-E/SN  
24LC16BT-E/SNA26  
24AA01/SN  
24AA01-I/SN  
24AA01T/SN  
24AA01T-I/SN  
24LC02B/SN

24AA02/SN  
24LC02B-E/SN  
24LC02B-I/SN  
24AA02-I/SN  
24LC02BT/SN  
24LC02BT/SNA31  
24AA02T/SN  
24LC02BT-I/SN  
24AA02T-I/SN  
24LC02BT-E/SN  
24LC04B/SN  
24AA04/SN  
24LC04B-E/SN  
24AA04-I/SN  
24LC04BT/SN  
24AA04T/SN  
24AA04T-I/SN  
24AA04T-I/SNB24  
24LC04BT-E/SN  
24LC32A/SN  
24LC32A-E/SN  
24LC32A-I/SN  
24LC32A-I/SNA27  
24LC32A-I/SNRVE  
24AA32A-I/SN  
24AA32A-I/SNRVE  
34A47F-I/SN  
24LC32AT/SN  
PIC12F508T-I/SN025  
PIC12F508T-I/SN040  
PIC12F508T-I/SN045  
PIC12F508T-I/SN056  
PIC12F508T-I/SN066  
PIC12F508T-I/SN080  
PIC12F508T-I/SN  
PIC12F508T-E/SN079  
PIC12F508T-E/SN  
PIC12F509-E/SN055  
PIC12F509-E/SN  
PIC12F509-I/SN051  
PIC12F509-I/SN  
PIC12F509T-I/SN047  
PIC12F509T-I/SN048  
PIC12F509T-I/SN051  
PIC12F509T-I/SN058  
PIC12F509T-I/SN  
PIC12F509T-E/SN052  
PIC12F509T-E/SN055  
PIC12F509T-E/SN

25LC010A-E/SN  
25LC010A-I/SN  
25AA010A-I/SN  
25LC010A-H/SN  
25LC010AT-H/SN  
25LC010AT-I/SN  
25AA010AT-I/SN  
25LC010AT-E/SN  
25LC020A-E/SN  
25LC020A-I/SN  
25AA020A-I/SN  
25AA02E48-I/SN  
25AA02E64-I/SN  
25AA02UID-I/SN  
25LC020A-H/SN  
25LC020AT-H/SN  
25LC020AT-I/SN  
25AA020AT-I/SN  
25AA02E48T-I/SN  
25AA02E64T-I/SN  
25AA02UIDT-I/SN  
25LC020AT-E/SN  
25LC040A-E/SN  
25LC040A-M/SN  
25LC040A-I/SN103  
25LC040A-I/SN  
25AA040A-I/SN  
25LC040A-H/SN  
25LC040AT-H/SN  
25LC040AT-I/SN103  
25LC040AT-I/SN  
25AA040AT-I/SN  
25LC040AT-M/SN  
25LC040AT-E/SN  
PIC12F615-E/SN  
PIC12F615-I/SN083  
PIC12F615-I/SN  
PIC12F615-H/SN  
PIC12F615T-I/SN020  
PIC12F615T-I/SN043  
PIC12F615T-I/SN051  
PIC12F615T-I/SN057  
PIC12F615T-I/SN058  
PIC12F615T-I/SN071  
PIC12F615T-I/SN076  
PIC12F615T-I/SN079  
PIC12F615T-I/SN083  
PIC12F615T-I/SN  
PIC12F615T-E/SN

PIC12HV615-E/SN  
PIC12HV615-I/SN  
PIC12HV615T-I/SN022  
PIC12HV615T-I/SN  
PIC12HV615T-E/SN035  
PIC12HV615T-E/SN043  
PIC12HV615T-E/SN044  
PIC12HV615T-E/SN  
PIC12F609-E/SN  
PIC12F609-I/SN  
PIC12F609T-I/SN027  
PIC12F609T-I/SN  
PIC12F609T-E/SN  
PIC12HV609-E/SN  
PIC12HV609-I/SN  
PIC12HV609T-I/SN  
25LC512-E/SN  
25LC512-M/SN  
25LC512-I/SN  
25LC512T-I/SN  
25LC512T-M/SN  
25LC512T-E/SN  
25AA512-I/SN  
25AA512T-I/SN  
25AA512T-I/SN-SCI  
MCP3422A0-E/SN  
MCP3426A0-E/SN  
MCP3422A0T-E/SN  
MCP3426A0T-E/SN  
MCP3422A1-E/SN  
11LC010-I/SN  
11AA010-I/SN  
11LC010T-I/SN  
11AA010T-I/SN  
11LC010T-E/SN  
11LC020-E/SN  
11LC020-I/SN  
11AA020-I/SN  
11AA02E48-I/SN  
11AA02E64-I/SN  
11AA02UID-I/SN  
11LC020T-I/SN  
11AA020T-I/SN  
11AA02E48T-I/SN  
11AA02E64T-I/SN  
11AA02UIDT-I/SN  
11LC020T-E/SN  
11LC040-E/SN  
11LC040-I/SN

11AA040-I/SN  
11LC040T-I/SN  
11AA040T-I/SN  
11LC040T-E/SN  
11LC080-E/SN  
11LC080-I/SN  
11AA080-I/SN  
11LC080T-I/SN  
11AA080T-I/SN  
11LC080T-E/SN  
11LC160-E/SN  
11LC160-I/SN  
11AA160-I/SN  
11LC160T-I/SN  
11AA160T-I/SN  
11LC160T-E/SN  
11LC161-E/SN  
11LC161-I/SN  
11AA161-I/SN  
11LC161T-I/SN  
11AA161T-I/SN  
11LC161T-E/SN  
24AA02/SNB79  
24LC02B-I/SNA32  
24LC02BT-I/SN104  
24LC02BT-I/SNA32  
24LC01BH-E/SN  
24LC01BH-I/SN  
24AA01H-I/SN  
24LC01BHT-I/SN  
24AA01HT-I/SN  
24LC01BHT-E/SN  
24LC02BH-E/SN  
24AA02E48-E/SN  
24AA02E64-E/SN  
24LC02BH-I/SN100  
24LC02BH-I/SN  
24AA02H-I/SN  
24AA02E48-I/SN  
24AA02E64-I/SN  
24AA02UID-I/SN  
24LC02BHT-I/SN  
24AA02HT-I/SN  
24AA02E48T-I/SN  
24AA02E64T-I/SN  
24AA02UIDT-I/SN  
24LC02BHT-E/SN  
24AA02E48T-E/SN  
24AA02E64T-E/SN

24LCS52/SN  
24LCS52-I/SN  
24AA52-I/SN  
24LCS52T/SN  
24LCS52T-I/SN  
24AA52T-I/SN  
24LC024/SN  
24LC025/SN  
24VL024/SN  
24VL025/SN  
24LC024-E/SN  
24LC025-E/SN  
24LC024-I/SN  
24AA024-I/SN  
24LC025-I/SN  
24AA025-I/SN  
24LC024T/SN  
24LC025T/SN  
24VL024T/SN  
24VL025T/SN  
24LC024T-I/SN  
24AA024T-I/SN  
24LC025T-I/SN  
24AA025T-I/SN  
24LC024T-E/SN  
24LC025T-E/SN  
24VL014/SN  
24LC014-E/SN  
24LC014-I/SN  
24AA014-I/SN  
24VL014T/SN  
24LC014T-I/SN  
24AA014T-I/SN  
24LC014T-E/SN  
24C01C/SN  
24C01C-E/SN  
24C01C-I/SN  
24C01CT/SN  
24C01CT-I/SN  
24C01CT-E/SN  
24VL014H/SN  
24LC014H-E/SN  
24LC014H-I/SN  
24AA014H-I/SN  
24VL014HT/SN  
24LC014HT-I/SN  
24AA014HT-I/SN  
24LC014HT-E/SN  
24VL024H/SN

24LC024H-E/SN  
24AA025E48-E/SN  
24AA025E64-E/SN  
24LC024H-I/SN  
24AA024H-I/SN  
24AA025E48-I/SN  
24AA025E64-I/SN  
24AA025UID-I/SN  
24VL024HT/SN  
24LC024HT-I/SN  
24AA024HT-I/SN  
24AA025E48T-I/SN  
24AA025E64T-I/SN  
24AA025UIDT-I/SN  
24LC024HT-E/SN  
24AA025E48T-E/SN  
24AA025E64T-E/SN  
34VL02/SN  
34LC02-E/SN  
34AA02-E/SN  
34LC02-I/SN  
34AA02-I/SN  
34VL02T/SN  
34LC02T-I/SN  
34AA02T-I/SN  
34LC02T-E/SN  
34AA02T-E/SN  
MCP79410-I/SN  
MCP79411-I/SN  
MCP79412-I/SN  
MCP79410T-I/SN  
MCP79411T-I/SN  
MCP79412T-I/SN  
MCP79400-I/SN  
MCP79401-I/SN  
MCP79402-I/SN  
MCP79400T-I/SN  
MCP79401T-I/SN  
MCP79402T-I/SN  
MCP7940N-E/SN  
MCP7940N-I/SN  
MCP7940M-I/SN  
MCP7940NT-I/SN  
MCP7940MT-I/SN  
MCP7940NT-E/SN  
PIC12LF1552-E/SN  
PIC12LF1552-I/SN  
PIC12LF1552T-I/SN021  
PIC12LF1552T-I/SN023

PIC12LF1552T-I/SN  
25K512-I/SN  
25A512-I/SN  
25K512T-I/SN  
25A512T-I/SN  
PIC12F1822-E/SN  
PIC12F1822-E/SNC07  
PIC12F1822-I/SN052  
PIC12F1822-I/SN  
PIC12F1822-I/SNC08  
PIC12F1822-I/SNC11  
PIC12F1822-I/SNC15  
PIC12F1822T-I/SN039  
PIC12F1822T-I/SN049  
PIC12F1822T-I/SN052  
PIC12F1822T-I/SN053  
PIC12F1822T-I/SN  
PIC12F1822T-I/SNC08  
PIC12F1822T-I/SNC15  
PIC12F1822T-E/SN046  
PIC12F1822T-E/SN  
PIC12F1822T-E/SNC07  
PIC12LF1822-E/SN  
PIC12LF1822-I/SN  
PIC12LF1822T-I/SN  
PIC12LF1822T-E/SN  
PIC12F1840-E/SN  
PIC12F1840-I/SN  
PIC12F1840T-I/SN  
PIC12F1840T-E/SN  
PIC12LF1840-E/SN  
MTCH112-I/SN  
PIC12LF1840-I/SN  
MTCH112T-I/SN  
PIC12LF1840T-I/SN  
PIC12LF1840T-E/SN  
PIC12F1501-E/SN047  
PIC12F1501-E/SN048  
PIC12F1501-E/SN  
PIC12F1501-I/SN  
PIC12F1501-I/SNH3A  
PIC12F1501T-I/SN027  
PIC12F1501T-I/SN  
PIC12F1501T-I/SNH1A  
PIC12F1501T-I/SNH2A  
PIC12F1501T-I/SNH3A  
PIC12F1501T-I/SNL1A  
PIC12F1501T-I/SNL2A  
PIC12F1501T-I/SNL3A



PIC12F1501T-I/SNL4A  
PIC12F1501T-E/SN022  
PIC12F1501T-E/SN032  
PIC12F1501T-E/SN033  
PIC12F1501T-E/SN034  
PIC12F1501T-E/SN035  
PIC12F1501T-E/SN047  
PIC12F1501T-E/SN048  
PIC12F1501T-E/SN052  
PIC12F1501T-E/SN  
PIC12LF1501-E/SN  
PIC12LF1501-I/SN  
PIC12LF1501T-I/SN023  
PIC12LF1501T-I/SN024  
PIC12LF1501T-I/SN  
PIC12LF1501T-E/SN  
PIC12F1612-E/SN  
PIC12F1612-I/SN  
PIC12LF1612-E/SN  
PIC12LF1612-I/SN  
PIC12LF1612T-I/SN  
PIC12F1571-E/SN  
PIC12F1572-E/SN  
PIC12F1571-I/SN030  
PIC12F1571-I/SN032  
PIC12F1571-I/SN035  
PIC12F1571-I/SN038  
PIC12F1571-I/SN057  
PIC12F1571-I/SN063  
MCP130T-460I/SN  
MCP130T-475I/SN  
MCP130T-485I/SN  
MCP120-270I/SN  
MCP120-300I/SN  
MCP120-315I/SN  
MCP120-450I/SN  
MCP120-460I/SN  
MCP120-475I/SN  
25LC160/SN  
25AA160/SN  
25C160/SN  
25C160-E/SN  
25LC160-I/SN  
25AA160-I/SN  
25C160-I/SN  
25LC160T/SN  
25AA160T/SN  
25C160T/SN  
25LC160T-I/SN

25AA160T-I/SN  
25C160T-I/SN  
25C160T-E/SN  
93LC76/SN  
93AA76/SN  
93C76-E/SN  
93LC76-I/SN  
93LC76T/SN  
93AA76T/SN  
93LC76T-I/SN  
93C76T-E/SN  
93LC86/SN  
93AA86/SN  
93C86-E/SN  
93LC86-I/SN  
93LC86T/SN  
93AA86T/SN  
93LC86T-I/SN  
93C86T-E/SN  
HCS300/SN042  
HCS300/SN  
HCS300-I/SN  
HCS300T/SN031  
HCS300T/SN  
HCS300T-I/SN029  
HCS300T-I/SN047  
HCS300T-I/SN049  
HCS300T-I/SN053  
HCS300T-I/SN  
HCS301/SN024  
HCS301/SN  
HCS301-I/SN  
HCS301T/SN022  
HCS301T/SN024  
HCS301T/SN  
HCS301T-I/SN028  
HCS301T-I/SN029  
HCS301T-I/SN  
HCS200/SN  
HCS200-I/SN  
HCS200T/SN  
HCS200T-I/SN  
24LCS21A/SN  
24LC21A/SN  
24LC21/SN  
24LC21A-I/SN100  
24LCS21A-I/SN  
24LC21A-I/SN  
24LC21-I/SN

24LCS21AT/SN  
24LC21AT/SN  
24LC21T/SN  
24LC21AT-I/SN100  
24LCS21AT-I/SN  
24LC21AT-I/SN  
24LC21T-I/SN  
24LCS22A-I/SN  
24LC22A-I/SN  
24LCS22AT-I/SN  
24LC22AT-I/SN  
MCP606-I/SN  
MCP608-I/SN  
MCP606T-I/SN  
MCP608T-I/SN  
PIC12C508A-04/SN208  
PIC12LC508A-04/SN  
PIC12C508A-04/SN  
PIC12C508A-04E/SN  
PIC12LC508A-04I/SN  
PIC12C508A-04I/SN  
PIC12C508AT-04/SN208  
PIC12C508AT-04/SN  
PIC12C508AT-04I/SN077  
PIC12C508AT-04I/SN123  
PIC12LC508AT-04I/SN167  
PIC12LC508AT-04I/SN168  
PIC12C508AT-04I/SN221  
PIC12C508AT-04I/SN231  
PIC12C508AT-04I/SN  
PIC12LC509A-04/SN  
PIC12C509A-04/SN  
PIC12C509A-04E/SN  
PIC12LC509A-04I/SN  
PIC12C509A-04I/SN  
PIC12C509A-04I/SNC09  
PIC12C509AT-04/SN  
PIC12LC509AT-04I/SNG063  
PIC12LC509AT-04I/SN126  
PIC12LC509AT-04I/SN  
PIC12C509AT-04E/SN  
MCP130-270I/SN  
MCP130-300I/SN  
MCP130-315I/SN  
MCP130-450I/SN  
MCP130-460I/SN  
MCP130-475I/SN  
MCP130-485I/SN  
MCP130T-270I/SN

MCP130T-300I/SN  
MCP130T-315I/SN  
MCP130T-450I/SN  
MCP6281-E/SN  
MCP6283-E/SN  
MCP6291-E/SN  
MCP6293-E/SN  
MCP6271T-E/SN  
MCP6273T-E/SN  
MCP6281T-E/SN  
MCP6283T-E/SN  
MCP6291T-E/SN  
MCP6293T-E/SN  
MCP6L71T-E/SN  
MCP6L91T-E/SN  
MCP6031-E/SN  
MCP6033-E/SN  
MCP6031T-E/SN  
MCP6033T-E/SN  
MCP6032-E/SN  
MCP6032T-E/SN  
MCP6032T-E/SNEIE  
MCP6051-E/SN  
MCP6061-E/SN  
MCP6071-E/SN  
MCP6051T-E/SN  
MCP6061T-E/SN  
MCP6071T-E/SN  
MCP6052-E/SN  
MCP6062-E/SN  
MCP6072-E/SN  
MCP6052T-E/SN  
MCP6062T-E/SN  
MCP6072T-E/SN  
MCP41010-E/SN  
MCP41010-I/SN  
MCP41010T-I/SN  
MCP41010T-E/SN  
MCP601-E/SN  
MCP603-E/SN  
MCP601-I/SN  
MCP603-I/SN  
MCP601T-I/SN  
MCP603T-I/SN  
MCP601T-E/SN  
MCP603T-E/SN  
MCP6L1T-E/SN  
MCP3201-BI/SN  
MCP3201-CI/SN

MCP3201T-BI/SN  
MCP3201T-CI/SN  
MCP3202-BI/SN  
MCP3202-CI/SN  
MCP3202T-BI/SN  
MCP3202T-CI/SN  
MCP3001-I/SN  
MCP3001T-I/SN  
MCP3002-I/SN  
MCP3002T-I/SN  
MCP602-E/SN  
MCP602-I/SN  
MCP602-I/SNREL  
MCP602T-I/SN  
MCP602T-E/SN  
MCP6L2T-E/SN  
MCP41050-E/SN  
MCP41050-I/SN  
MCP41050T-I/SN  
MCP41050T-E/SN  
MCP41100-E/SN  
MCP41100-I/SN  
MCP41100T-I/SN  
MCP41100T-E/SN  
MCP3301-BI/SN  
MCP3301-CI/SN  
MCP3301T-BI/SN  
MCP3301T-CI/SN  
MCP6042-E/SN  
MCP6042-I/SN  
MCP6042-I/SNREL  
MCP6042T-I/SN  
MCP6042T-E/SN  
MCP6142-E/SN  
MCP6142-I/SN  
MCP6142T-I/SN  
MCP6142T-E/SN  
MCP6002-E/SN  
MCP6002-I/SN  
MCP6002T-I/SN  
MCP6002T-E/SN  
MCP6L02T-E/SN  
MCP6231-E/SN  
MCP6231T-E/SN  
MCP6241-E/SN  
MCP6241T-E/SN  
MCP6232-E/SN  
MCP6232T-E/SN  
MCP6242-E/SN

MCP6242T-E/SN  
MCP6S91-E/SN  
MCP6S91T-E/SN  
MCP6S92-E/SN  
MCP6S92T-E/SN  
MCP6G01-E/SN  
MCP6G01T-E/SN  
MCP6G03-E/SN  
MCP6G03T-E/SN  
MCP6G02-E/SN  
MCP6G02T-E/SN  
MCP6041-E/SN  
MCP6043-E/SN  
MCP6041-I/SN  
MCP6043-I/SN  
MCP6041T-I/SN  
MCP6043T-I/SN  
MCP6041T-E/SN  
MCP6043T-E/SN  
MCP6141-E/SN  
MCP6143-E/SN  
MCP6141-I/SN  
MCP6143-I/SN  
MCP6141T-I/SN  
MCP6143T-I/SN  
MCP6141T-E/SN  
MCP6143T-E/SN  
MCP6402-E/SN  
MCP6402-H/SN  
MCP6407T-H/SN  
MCP6407-H/SN  
MCP6402T-H/SN  
MCP6402T-E/SN  
MCP6442-E/SN  
MCP6442T-E/SN  
24LC01B/SN  
24LC01B-E/SN  
24LC01B-I/SN  
24LC01BT/SN  
24LC01BT-I/SN  
24LC01BT-I/SNA21  
24LC01BT-I/SNA23  
24LC01BT-I/SNRVE  
24LC01BT-E/SN  
24LC04B-I/SN  
24LC04BT-I/SN  
24LC04BT-I/SNA29  
24LC64-I/SNRVA  
24LC64T-I/SNRVA

25LC640-E/SN  
25LC640-I/SN  
25AA640-I/SN  
25LC640T-I/SN  
25AA640T-I/SN  
25LC640T-E/SN  
25LC320/SN  
25C320/SN  
25LC320-E/SN  
25C320-E/SN  
25LC320-I/SN  
25AA320-I/SN  
25C320-I/SN  
25LC320T/SN  
25C320T/SN  
25LC320T-I/SN  
25AA320T-I/SN  
25C320T-I/SN  
25LC320T-E/SN  
25C320T-E/SN  
HCS201/SN  
HCS201-I/SN036  
HCS201-I/SN  
HCS201T/SN017  
HCS201T/SN021  
HCS201T/SN024  
HCS201T/SN  
HCS201T-I/SN  
HCS101-I/SN  
24C02C/SN  
24C02C-E/SN  
24C02C-I/SN  
24C02CT/SN  
24C02CT-I/SN  
24C02CT-E/SN  
MCRF450X/SN  
MCRF450TX/SN  
PIC12F675-C/SN  
PIC12F675-E/SN  
PIC12F675-I/SN102  
PIC12F675-I/SN112  
PIC12F675-I/SN166  
PIC12F675-I/SN172  
PIC12F675-I/SN177  
PIC12F675-I/SN202  
PIC12F675-I/SN  
PIC12F675-I/SNC15  
PIC12F675T-C/SN  
PIC12F675T-I/SN026

PIC12F675T-I/SN049  
PIC12F675T-I/SN075  
PIC12F675T-I/SN079  
PIC12F675T-I/SN085  
PIC12F675T-I/SN121  
PIC12F675T-I/SN131  
PIC12F675T-I/SN145  
PIC12F675T-I/SN150  
PIC12F675T-I/SN152  
PIC12F675T-I/SN153  
PIC12F675T-I/SN166  
PIC12F675T-I/SN172  
PIC12F675T-I/SN173  
PIC12F675T-I/SN178  
PIC12F675T-I/SN179  
PIC12F675T-I/SN185  
PIC12F675T-I/SN190  
PIC12F675T-I/SN191  
PIC12F675T-I/SN194  
PIC12F675T-I/SN195  
PIC12F675T-I/SN199  
PIC12F675T-I/SN200  
PIC12F675T-I/SN201  
PIC12F675T-I/SN202  
PIC12F675T-I/SN206  
PIC12F675T-I/SN207  
PIC12F675T-I/SN208  
PIC12F675T-I/SN  
PIC12F675T-I/SNC15  
PIC12F675T-E/SN073  
PIC12F675T-E/SN082  
PIC12F675T-E/SN091  
PIC12F675T-E/SN  
24LC256-E/SN  
24LC256-I/SN  
24LC256-I/SNRVE

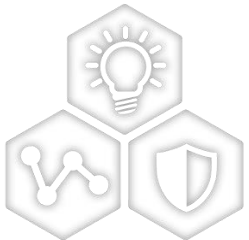


**CCB 4993**  
**Pre and Post Change Summary**  
**PCN# ALAN-03HTZP673**



---

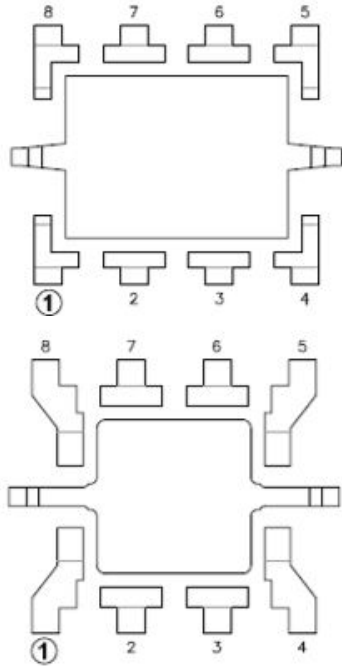
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

# Pre and Post Change Summary

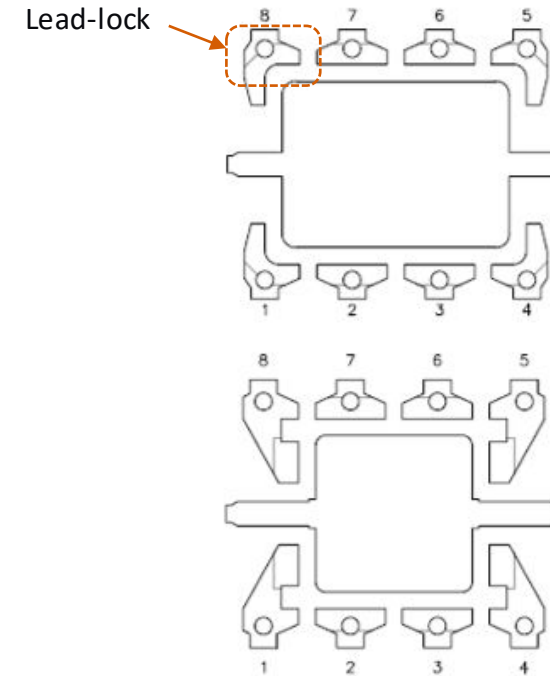
## Pre Change



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.



**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/		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		
	<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(0)	0/231	Pass	
	<b>Bond Strength:</b> Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)		15 (0)	0/15	Pass	
			15 (0)	0/15	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(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(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: ERS A 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	