

Product Change Notification / NTDO-13DVEP985

Date:

19-Jan-2022

Product Category:

8-bit Microcontrollers, Smart Energy SOC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5000 Final Notice: Qualification of C194 as new lead frame material for selected ATmega48PB/88PB/168PB, ATSENSEx01, ATMEGA808/1608/3208/4808 device families available in 32L TQFP (7x7x1mm) package at ASCL assembly site

Affected CPNs:

NTDO-13DVEP985_Affected_CPN_01192022.pdf NTDO-13DVEP985_Affected_CPN_01192022.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 C194 as new lead frame material for selected ATmega48PB/88PB/168PB, ATSENSEx01, ATMEGA808/1608/3208/4808 device families available in 32L TQFP (7x7x1mm) package at ASCL assembly site.

Pre and Post Change Summary:

	Pre Change	Post Change					
Assembly Site	ASE Group Chung-Li	ASE Group Chung-Li					
\\/ina \/atarial	(ASCL)	(ASCL)					
Wire Material	Cu/CuPd/CuPdAu	Cu/CuPd/CuPdAu					
Die Attach Material	EN-4900G/	EN-4900G/					
	EN-4900GC	EN-4900GC					
Molding Compound Material	CEL-9240/	CEL-9240/					
	CEL-9240HF/	CEL-9240HF/					
	G700LA	G700LA					
Lead-Frame Material	EFTEC64T	C194					
Lead-Frame Paddle Size	197X197	197X197					
DAP Surface Prep	Double Ring Plating	Double Ring Plating					
Lead-Frame Design	No change						

Impacts to Data Sheet:None

Change ImpactNone

Reason for Change:To improve manufacturability by qualifying C194 as new lead frame material.

Change Implementation Status:In Progress

Estimated First Ship Date:March 31, 2022 (date code: 2214)

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

Time Table Summary:

	January 2022					>	March 2022				
Workweek	1	2	3	4	5		1 0	1 1	1 2	1 3	1 4
Qual Report Availability			Х								
Final PCN Issue Date			Х								
Estimated Implementation											Х

_	_			_	_		_	
Date								

Method to Identify Change: Traceability code

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

Revision History: January 19, 2022: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on March 31, 2022.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachments:

PCN_NTDO-13DVEP985_Pre and Post Change_Summary.pdf PCN_NTDO-13DVEP985_Qual Report.pdf

Please contact your local Microchip sales office with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

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Affected Catalog Part Numbers (CPN)

ATMEGA168PB-AU

ATMEGA168PB-AN

ATMEGA168PB-ANR

ATMEGA168PB-AUR

ATMEGA88PB-AU

ATMEGA48PB-AU

ATMEGA88PB-AN

ATMEGA48PB-AN

ATMEGA88PB-ANR

ATMEGA48PB-ANR

ATMEGA88PB-AUR

ATMEGA48PB-AUR

ATMEGA808-AF

ATMEGA1608-AF

ATMEGA1608-AU

ATMEGA808-AU

ATMEGA1608-AUR

ATMEGA808-AUR

ATMEGA1608-AFR

ATMEGA808-AFR

ATMEGA168PB-AU

ATMEGA168PB-AN

ATMEGA168PB-ANR

ATMEGA168PB-AUR

ATMEGA48PB-AU

ATMEGA88PB-AU

ATMEGA88PB-AN

ATMEGA48PB-AN

ATMEGA88PB-ANR

ATMEGA48PB-ANR

ATMEGA48PB-AUR

ATMEGA88PB-AUR

ATMEGA4808-AF

ATMEGA3208-AF

ATMEGA4808-AU

ATMEGA3208-AU

ATMEGA4808-AUR

ATMEGA3208-AUR

ATMEGA4808-AFR

ATMEGA4808-AFR

ATMEGA3208-AFR ATSENSE301A-AU

ATSENSE201HA-AU ATSENSE301HA-AU

ATSENSE201A-AU

ATSENSE301A-AN

Date: Wednesday, January 19, 2022

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ATSENSE3UIA-ANK

ATSENSE301A-AUR

ATSENSE201HA-AUR

ATSENSE301HA-AUR

ATSENSE201A-AUR

Date: Wednesday, January 19, 2022