



Product Change Notification - KSRA-24QPZA419

Date:

27 Mar 2020

Product Category:

8-bit Microcontrollers; Capacitive Touch Sensors

Affected CPNs:**Notification subject:**

CCB 3976 Final Notice: Qualification of Global Foundries Fab 3/5 (GF35) fabrication site for the selected products of CAP12XX device families

Notification text:**PCN Status:**

Final Notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of Global Foundries Fab 3/5 (GF35) fabrication site for the selected products of CAP12XX device families

Pre Change:

Fabricated at Global Foundries, Singapore (Fab 3E) / GF3E using 8 inch wafers.

Post Change:

Fabricated at Global Foundries, Singapore (Fab 3/5) / GF35 using 8 inch wafers.

Pre and Post Change Summary:

	Pre Change	Post Change
Fab Site	Global Foundries, Singapore (Fab 3E) / GF3E	Global Foundries, Singapore (Fab 3/5) / GF35
Wafer Size	8 inch	8 inch
Quality Certification	ISO/TS16949	ISO/TS16949
Design / Lay-Out	No Change	No Change
Die Size	No Change	No Change

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on time delivery performance by qualifying Global Foundries Fab 3/5 (GF35) Fabrication site

Change Implementation Status:

In Progress

Estimated First Ship Date:

January 30, 2020 (date code: 2005)

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

Time Table Summary:



	October 2019					-->	December 2019				January 2020				
Workweek	40	41	42	43	44		49	50	51	52	01	02	03	04	05
Initial PCN Issue Date				X											
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:

October 25, 2019: Issued initial notification.

December 05, 2019: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on January 30, 2020

March 27, 2020: Re-issued final notification to update the qualification report to include reference qualification report from CCB 3834. Updated the Affected CPN list to remove CPN CAP1298-2-A4-TR. This CPN was EOL due to no activity in more than 3 years.

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

Attachment(s):

[PCN_KSRA-24QPZA419_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)

CAP1293-1-SN
CAP1203-1-SN
CAP1206-1-SL
CAP1208-1-SL
CAP1296-1-SL
CAP1298-1-SL
CAP1293-1-AC3-TR
CAP1203-1-AC3-TR
CAP1206-1-AIA-TR
CAP1296-1-AIA-TR
CAP1293-1-SN-TR
CAP1293-2-SN-TR
CAP1203-1-SN-TR
CAP1203-2-SN-TR
CAP1206-1-SL-TR
CAP1206-2-SL-TR
CAP1208-1-SL-TR
CAP1208-2-SL-TR
CAP1296-1-SL-TR
CAP1298-1-SL-TR
CAP1298-2-SL-TR
CAP1208-1-A4-TR
CAP1298-1-A4-TR
CAP1208-2-A4-TR



QUALIFICATION REPORT SUMMARY

PCN#: KSRA-24QPZA419

**Date:
November 22, 2019**

Qualification of Global Foundries Fab 3/5 (GF35) fabrication site for the selected products of CAP12XX device families

Purpose: Qualification of Global Foundries Fab 3/5 (GF35) fabrication site for the selected products of CAP12XX device families

CCB No.: 3976

Test / Evaluation	Test Conditions / Parameters	Result
WAT (Wafer Acceptance Test)	<ul style="list-style-type: none"> Compare WAT distribution of 5 wafers/mask 3 lots - one from each mask. (15 wafers in total) 	PASSED
Test Yield and Electrical Distribution	<ul style="list-style-type: none"> Compare Final Test Yield and Electrical Distribution of 5 wafers/mask 3 lots – one from each mask. (15 wafers in total) 	PASSED

Note: This Qualification will be QBS to products that were qualified and have been running at FAB 35

Reference qual data from CCB 3834:

Test Description	Test Method and Conditions	Pass Criteria	Results
HTOL High Temperature Operating Life Test	JESD22- A108, 1 lot 77pcs HTOL 1008hrs 125C	77 units 1008 Hrs @ 125C	Pass
ELFR Early Life Failure Rate	JESD74 1 lot 800pcs ELFR 48hrs 125C	800 units 48 HRS @ 125C	Pass
ESD-HBM Human-Body Model	JESD22-A114 R= 1500 Ohms C= 100 pF 1X +/- Voltage	2KV	Pass
ESD-MM Machine model	JESD22A115 R=0 Ohm, C=200 pF +/- Voltage	200V	Pass

Test Description	Test Method and Conditions	Pass Criteria	Results
ESD-CDM Charge device model	JESD22-C101 1X +/- Voltage	500V all Pins and 750V corner pins	Pass
Latch up	JESD78 TA = +25°C	+/-100ma	Pass