



## Product Change Notification - KSRA-24QPZA419

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**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
<b>Fab Site</b>	Global Foundries, Singapore (Fab 3E) / GF3E	Global Foundries, Singapore (Fab 3/5) / GF35
<b>Wafer Size</b>	8 inch	8 inch
<b>Quality Certification</b>	ISO/TS16949	ISO/TS16949
<b>Design / Lay-Out</b>	No Change	No Change
<b>Die Size</b>	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"> <li>Compare WAT distribution of 5 wafers/mask</li> <li>3 lots - one from each mask. (15 wafers in total)</li> </ul>	PASSED
Test Yield and Electrical Distribution	<ul style="list-style-type: none"> <li>Compare Final Test Yield and Electrical Distribution of 5 wafers/mask</li> <li>3 lots – one from each mask. (15 wafers in total)</li> </ul>	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
<b>HTOL</b> High Temperature Operating Life Test	JESD22- A108, 1 lot 77pcs HTOL 1008hrs 125C	77 units 1008 Hrs @ 125C	Pass
<b>ELFR</b> Early Life Failure Rate	JESD74 1 lot 800pcs ELFR 48hrs 125C	800 units 48 HRS @ 125C	Pass
<b>ESD-HBM</b> Human-Body Model	JESD22-A114 R= 1500 Ohms C= 100 pF 1X +/- Voltage	2KV	Pass
<b>ESD-MM</b> Machine model	JESD22A115 R=0 Ohm, C=200 pF +/- Voltage	200V	Pass

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