



Product Change Notification / GBNG-11SJB182

Date:

19-Feb-2021

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4526 Initial Notice: Qualification of a new fabrication site (Microchip - Fab 5) for various Microsemi products.

Notification Text:**PCN Status:**

Initial notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons 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 a new fabrication site (Microchip - Fab 5) for various Microsemi products.

Pre Change:

Fabricated at Microchip Technology, Inc. - Lowell site (formerly Microsemi Lowell) using 3 and 4 inch wafers.

Post Change:

Fabricated at Microchip Technology Colorado - Fab 5 site using 6 inch wafers.

Pre and Post Change Summary:

	Pre Change	Post Change
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Fabrication Location	Microchip Technology, Inc. - Lowell (formerly Microsemi Lowell) (MLWL)	Microchip Technology Colorado - Fab 5 (MCSO)
Wafer size	3 and 4 inches	6 inches

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on-time delivery performance by qualifying Microchip Technology Colorado - Fab 5 as part of the integration of Microsemi and Microchip.

Note: Lowell fab has a scheduled shut down target of August 2023.

Change Implementation Status:

In Progress

***Estimated Qualification Completion Date:**

February 2024

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

	February 2021				-->	Q2 2021 onwards
Workweek	06	07	08	09		
Initial PCN Issue Date			X			
Qual Report Availability						*X
Final PCN Issue Date						*X

Note: *Qual reports and final PCNs will begin to be issued starting on Q2 2021 and will identify the products that are qualified but will be variable by Product Type / Process (See table below). This FAB transition will vary by catalog part number (CPN) and may take several months/years to complete the transition that may result in several final PCNs. Please note that the final PCN and qualification report will be issued before shipment.

Estimated Process Technology Qualification Schedule:

Transfer Priority	Product Type / Process	Final PCN Issue Date / Qual Report Availability
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1	Process Tech_1	May 26, 2021
2	Process Tech_2	August 24, 2021
3	Process Tech_3	November 24, 2021
4	Process Tech_4	February 24, 2022
5	Process Tech_5	May 16, 2022
6	Process Tech_6	November 24, 2022
7	Process Tech_7	May 26, 2023
8	Process Tech_8	August 24, 2023
9	Process Tech_9	November 24, 2023
10	Process Tech_10	February 24, 2024
11	Process Tech_11	May 24, 2024

Method to Identify Change:

Traceability code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Note: Process technology qualifications will be performed to the MIL-PRF-19500 Standard (TX Level) utilizing Screening Flow plus Groups A, B, C and E, which is the original standard used to qualify these devices.

Appropriate group and subgroup tests are determined by product, package and die characteristics, therefore not all tests may apply. For example, packaging tests would not be conducted for bare die devices, PIND tests are only for packages with a cavity, leak tests are only for hermetic packages, SOA tests are for transistor technology only, etc.

Revision History:

February 19, 2021: Issued initial 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_GBNG-11SJBT182_Qual_Plan.pdf](#)

[PCN_GBNG-11SJBT182_Affected_CPN.pdf](#)

[PCN_GBNG-11SJBT182_Affected_CPN.xlsx](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

Terms and Conditions:

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