December 16, 2019

Subject: **PCN#11A-19 Notification of Intent to Utilize an Alternate Qualified Foundry and Alternate Qualified Mask Sets for the select ECP5U and CrossLink Products**

Dear Lattice Customers,

Lattice is providing Notification of our intent to utilize an Alternate Qualified Foundry and Alternate Qualified Mask Sets for the select ECP5U and CrossLink products. This PCN does not include ECP5UM (SERDES), automotive LA-ECP5 nor automotive LA-CrossLink (MD6000) products at this time.

Change Description

In an effort to expand ECP5U and CrossLink manufacturing capacity we are adding the United Semiconductor Japan Company Ltd. (USJC), formerly Fujitsu Semiconductor, fab in Mie, Japan. There have been no changes made to the device's form, fit or function.

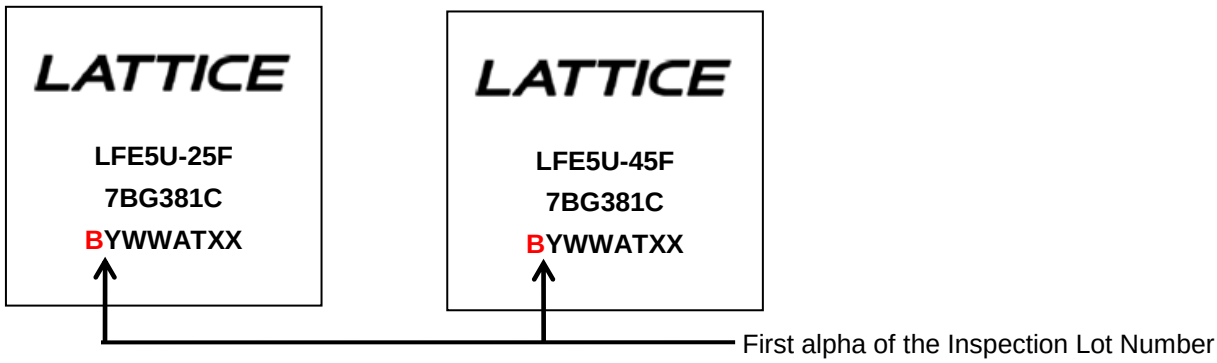
Affected Products

The Ordering Part Numbers (OPNs) affected by this PCN are listed in an Excel spreadsheet here. This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed in the table.

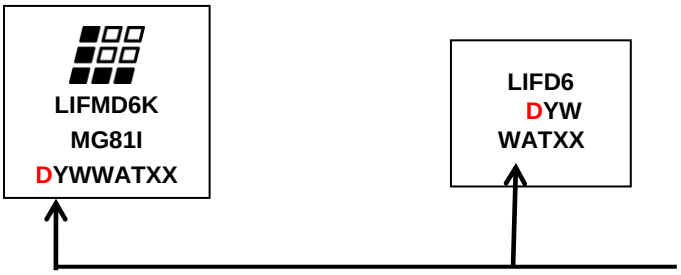
Device Identification

Devices with this new alternate qualified mask set can be identified by the first alpha character of the Inspection Lot Number for the alternate fab manufactured product, which is marked on the topside of the device. Inspection lot numbers are also marked on the label on the outside of the inventory box as well as on the anti-static moisture barrier bag within. See device topside marking examples below:

For LFE5U products the alternate foundry first alpha character is a "**B**".



For CrossLink (LIF-MD6000) products the alternate foundry first alpha character is a "**D**"



Data Sheet Specifications

This PCN has no impact on any data sheet performance specifications.

Qualification Data

Reliability testing for the qualification of the ECP5U and CrossLink devices has been completed. The respective qualification data summaries are available here (ECP5) and here (CrossLink).

Characterization Data

The device characterization report is available here.

Sample Support

Conversion timing for this PCN is 90 days from the date of this Notice. No action is required (meaning no changes to OPNs, your internal Bills of Material, backlog or orders) unless you plan to do further evaluation.

Lattice performed qualification to the JESD47 standard and characterized the affected devices within the published specification limits. For potential customer uses that are non-standard or beyond published specification limits, Lattice recommends the customer confirm their product performance **by requesting samples**. Should samples be required to complete evaluation of this PCN, such sample requests must be received no later than January 16, 2020 (30 days after the date of this Notice). Samples for this PCN will use the "**AP2**" suffix appended to the standard OPNs as shown in the example below:

Example:

Standard OPN:	LFE5U-12F-6BG256C
Alternate Mask Device Sample OPN:	LFE5U-12F-6BG256CAP2

The alternate foundry device samples are available to order. Customers will have 90 days to evaluate this PCN from receipt of samples.

Conversion Timing Summary

- **Sample Request Cut-off Date:** **January 16, 2020**
- **PCN Expiration Date:** **March 16, 2020**

Response

In accordance with J-STD-46, this change is deemed accepted by the customer if no acknowledgement is received within 30 days from this Notice. Lattice PCNs are available on the Lattice PCN web page. Please sign up to receive e-mail PCN alerts by registering here. If you already have a Lattice web account and wish to receive PCN alerts, you can do so by logging into your account and making edits to your subscription options.

Contact

If you have any questions or require additional information, please contact sales@latticesemi.com.

Sincerely,
Lattice Semiconductor PCN Administration

LFE5U-12F-6BG256C	LFE5U-25F-6MG285I	LFE5U-45F-7BG381C
LFE5U-12F-6BG256I	LFE5U-25F-7BG256C	LFE5U-45F-7BG381I
LFE5U-12F-6BG381C	LFE5U-25F-7BG256I	LFE5U-45F-7BG554C
LFE5U-12F-6BG381I	LFE5U-25F-7BG381C	LFE5U-45F-7BG554I
LFE5U-12F-6MG285C	LFE5U-25F-7BG381I	LFE5U-45F-7MG285C
LFE5U-12F-6MG285I	LFE5U-25F-7MG285C	LFE5U-45F-7MG285I
LFE5U-12F-7BG256C	LFE5U-25F-7MG285I	LFE5U-45F-8BG256C
LFE5U-12F-7BG256I	LFE5U-25F-8BG256C	LFE5U-45F-8BG256I
LFE5U-12F-7BG381C	LFE5U-25F-8BG256I	LFE5U-45F-8BG381C
LFE5U-12F-7BG381I	LFE5U-25F-8BG381C	LFE5U-45F-8BG381I
LFE5U-12F-7MG285C	LFE5U-25F-8BG381I	LFE5U-45F-8BG554C
LFE5U-12F-7MG285I	LFE5U-25F-8MG285C	LFE5U-45F-8BG554I
LFE5U-12F-8BG256C	LFE5U-25F-8MG285I	LFE5U-45F-8MG285C
LFE5U-12F-8BG256I	LFE5U-45F-6BG256C	LFE5U-45F-8MG285I
LFE5U-12F-8BG381C	LFE5U-45F-6BG256I	LIF-MD6000-6JMG80I
LFE5U-12F-8BG381I	LFE5U-45F-6BG381C	LIF-MD6000-6KMG80I
LFE5U-12F-8MG285C	LFE5U-45F-6BG381I	LIF-MD6000-6MG81I
LFE5U-12F-8MG285I	LFE5U-45F-6BG554C	LIF-MD6000-6UMG64I
LFE5U-25F-6BG256C	LFE5U-45F-6BG554I	LIF-MD6000-6UMG64ITR
LFE5U-25F-6BG256I	LFE5U-45F-6MG285C	LIF-MD6000-6UMG64ITR1K
LFE5U-25F-6BG381C	LFE5U-45F-6MG285I	LIF-MD6000-6UWG36ITR
LFE5U-25F-6BG381I	LFE5U-45F-7BG256C	LIF-MD6000-6UWG36ITR1K
LFE5U-25F-6MG285C	LFE5U-45F-7BG256I	