



June 9, 2014

**Subject: PCN#05A-14 Notification of Intent to Utilize an Alternate Qualified Foundry and Alternate Qualified Mask Sets for the MachXO Products**

Dear Lattice Customers,

Lattice is providing this 5-month Notification of our intent to utilize an Alternate Qualified Foundry and Alternate Qualified Mask Sets for the MachXO™ products. This PCN does not include LA-MachXO family of products at this time. Lattice will issue a separate PCN later this year for the LA-MachXO foundry transfer.

**Change Description**

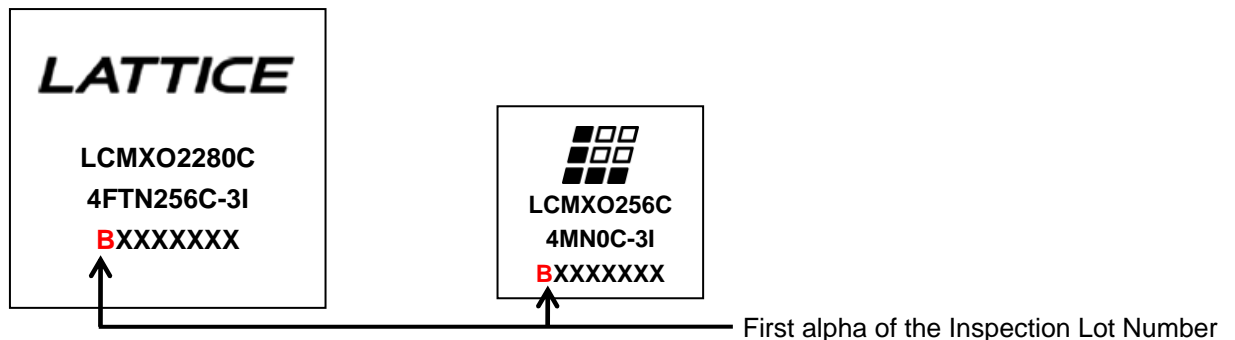
As communicated via [ACN#05A-13](#) issued in July 2013, Lattice is transferring the MachXO product family from Fujitsu Semiconductor’s 200mm fab in Mie, Japan to their 300mm adjacent fab. Lattice is taking advantage of this fabrication line consolidation effort within Fujitsu Semiconductor to make this move to a newer, more advanced production line. Transfer to this newer 300mm line will help ensure longevity for this successful and widely adopted programmable logic device (PLD) family. 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 (“B” for the 300mm 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:



## **Data Sheet Specifications**

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

## **Qualification Data**

Reliability testing for the qualification of the MachXO devices on 300mm line has been completed. A summary of the qualification data is available [here](#).

## **Characterization Data**

A device characterization report is available [here](#).

## **Frequently Asked Questions (FAQ)**

Lattice recommends that customers refer to the FAQ document available [here](#) to find answers to commonly asked questions regarding this PCN.

## **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. Should samples be required to complete evaluation of this PCN, such sample requests must be received no later than July 9, 2014 (30 days after the date of this Notice). Samples for this PCN will use the “**FJ3**” suffix appended to the standard OPNs as shown in the example below:

### Example:

Standard OPN: LCMXO640C-4FTN256C  
300mm Device Sample OPN: LCMXO640C-4FTN256CFJ3

300mm line device samples for the LCMXO2280C/E are available for shipment immediately. Samples for the rest of the family will be available in October timeframe. Customers will have 90 days to evaluate this PCN from receipt of samples.

## **Conversion Timing Summary**

- **Sample Request Cut-off Date:** July 9, 2014
- **PCN Expiration Date:** November 30, 2014

## **Response**

In accordance with JESD46-D, 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 [pcn@latticesemi.com](mailto:pcn@latticesemi.com).

Sincerely,

Lattice Semiconductor PCN Administration