



November 17, 2014

PCN#03B-13 supersedes PCN#03A-13
see PCN history for change descriptions.

Subject: PCN# 03B-13 Notification of Intent to Utilize an Alternate Qualified Assembly / Test Site and Alternate Qualified Material Sets for Select Lattice Products

Dear Lattice Customers,

Lattice is providing this 90-day Notification of our intent to utilize an alternate qualified assembly / test site and alternate qualified material sets for select devices and packages.

In an effort to expand Copper bond wire (Cu-wire) manufacturing capacity, Lattice will now use Advanced Semiconductor Engineering Kaohsiung, Taiwan (ASET) for select devices. ASET utilizes industry standard raw materials, assembly and test processes. The use of these alternate qualified material sets will not change external package dimensions. The package footprints remain the same and are published on the [Lattice website](#). These changes will not impact form, fit or function.

Devices manufactured at ASET with alternate qualified material sets will meet all existing specifications.

Affected Products

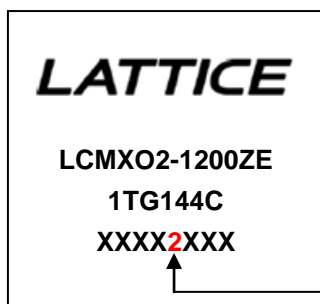
The Ordering Part Numbers (OPNs) affected by this PCN are listed in an Excel spreadsheet [here](#). This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed in the table.

Material Set Changes

Please refer to the Excel spreadsheet [here](#) for details of material set changes associated with this PCN.

Device Identification

Devices with Cu-wire material sets manufactured at ASET can be identified by a numeric value ("2") in the fifth position of the datecode marked on the topside of the devices. This datecode is 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 example below:



"2" in the fifth position of Datecode indicates
Cu-wire material set from ASET

Data Sheet Specifications

This PCN has no impact on any data sheet specification.

Qualification Data

Qualification data pertinent to this PCN can be found [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.

Conversion Timeline

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 August 1, 2013 (30 days after the date of this Notice). Samples for this PCN will use the “**CU2**” suffix appended to the standard OPNs as shown in the example below:

Example:

Standard OPN: LCMXO2-1200ZE-1TG144C
Cu-wire (ASET) OPN: LCMXO2-1200ZE-1TG144CCU2

Conversion Timing Summary

- **Sample Request Cut-off Date:** August 1, 2013
- **PCN Expiration Date:** October 1, 2013

Backlog

Lattice recommends that customers complete their evaluation before the PCN Expiration Date (October 1, 2013). Lattice will begin shipping devices manufactured at ASET as early as October 1, 2013. Any customer who does not want to receive devices manufactured at ASET beyond the PCN Expiration Date (October 1, 2013) must initiate a change order request to convert their backlog to the “**CA1**” suffix appended to the standard OPN as shown in the example in the next page:

Example:

Standard OPN: LCMXO2-1200ZE-1TG144C
Existing Qualified Material Set OPN: LCMXO2-1200ZE-1TG144CCA1

After the customer completes evaluation of ASET manufactured device, any backlog with the “CA1” custom OPNs must be converted back to the standard OPN.

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.

Sincerely,
Lattice Semiconductor PCN Administration

PCN History

PCN#	Issue Date	Description
03A-13	July 1, 2013	Initial release
03B-13	November 17, 2014	Revision to the material set table; adding wire, solder ball, and lead-frame composition information