



April 11, 2011

Subject: PCN# 05A-11 Notification of Intent to Utilize an Alternate Foundry Process for the LatticeECP3 Products

Dear Lattice Customers:

In accordance with our Product Change Notification (PCN) policy, Lattice is providing this 90-day notification of our intent to utilize an alternate foundry process for the LatticeECP3™ products.

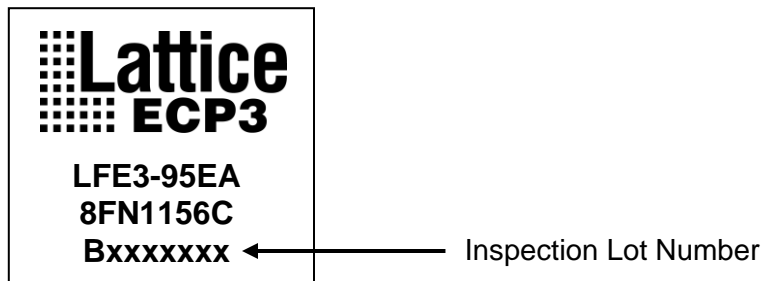
Lattice has recently identified a component of the inter-metal dielectric film stack with long term supply risk at our wafer foundry. In order to ensure long-term supply for the LatticeECP3 products, Lattice will replace this component with the more mainstream foundry material already used in the inter-metal dielectric at other levels. This same material structure is currently being used with Lattice's LatticeECP2M™, LatticeXP2™, and MachXO2™ families. Lattice will be able to provide seamless supply of these LatticeECP3 products by upgrading the fabrication process.

AFFECTED DEVICES

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

DEVICE IDENTIFICATION

Devices with this new process can be identified by the first alpha character of the Inspection Lot Number ("B" for this alternate foundry process), which is marked on the topside of the device. Inspection lot numbers are also marked on the label ("Mark Code" field) on the outside of the inventory box as well as on the anti-static, moisture barrier bag within. See device topside marking example below.



DATA SHEET SPECIFICATIONS

This PCN has no impact on any data sheet specifications. These devices are bitstream compatible and no changes are required.

DEVICE CHARACTERIZATION REPORT

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

QUALIFICATION DATA

Reliability testing for the qualification of this fabrication process is complete. A summary of the qualification data is available [here](#).

CONVERSION TIMING

Conversion timing for this PCN is 90 days from the date of this Notice. Should samples be required to complete evaluation of this PCN, such sample request must be received **no later than May 11, 2011** (30 days after the date of this Notice).

CONVERSION TIMING – SUMMARY

- **Sample Request Cut-off Date:** **May 11, 2011**
- **PCN Expiration Date:** **July 11, 2011**

RESPONSE

In accordance with JESD46-C, 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 website](#). 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

EXHIBIT "A" – Affected Device List

Product Line	Ordering Part Number	Package	Product Line	Ordering Part Number	Package
LFE3-17EA	LFE3-17EA-8FTN256C	Pb-Free 256-ftBGA	LFE3-95EA	LFE3-95EA-8FN1156C	Pb-Free 1156-fpBGA
	LFE3-17EA-7FTN256C			LFE3-95EA-7FN1156C	
	LFE3-17EA-6FTN256C			LFE3-95EA-6FN1156C	
	LFE3-17EA-8FTN256I			LFE3-95EA-8FN1156I	
	LFE3-17EA-7FTN256I			LFE3-95EA-7FN1156I	
	LFE3-17EA-6FTN256I			LFE3-95EA-6FN1156I	
	LFE3-17EA-8FN484C	Pb-Free 484-fpBGA		LFE3-95EA-8FN484C	Pb-Free 484-fpBGA
	LFE3-17EA-7FN484C			LFE3-95EA-7FN484C	
	LFE3-17EA-6FN484C			LFE3-95EA-6FN484C	
	LFE3-17EA-8FN484I			LFE3-95EA-8FN484I	
	LFE3-17EA-7FN484I			LFE3-95EA-7FN484I	
	LFE3-17EA-6FN484I			LFE3-95EA-6FN484I	
LFE3-35EA	LFE3-35EA-8FTN256C	Pb-Free 256-ftBGA	LFE3-150EA	LFE3-95EA-8FN672C	Pb-Free 672-fpBGA
	LFE3-35EA-7FTN256C			LFE3-95EA-7FN672C	
	LFE3-35EA-6FTN256C			LFE3-95EA-6FN672C	
	LFE3-35EA-8FTN256I			LFE3-95EA-8FN672I	
	LFE3-35EA-7FTN256I			LFE3-95EA-7FN672I	
	LFE3-35EA-6FTN256I			LFE3-95EA-6FN672I	
	LFE3-35EA-8FN484C	Pb-Free 484-fpBGA		LFE3-150EA-8FN1156C	Pb-Free 1156-fpBGA
	LFE3-35EA-7FN484C			LFE3-150EA-7FN1156C	
	LFE3-35EA-6FN484C			LFE3-150EA-6FN1156C	
	LFE3-35EA-8FN484I			LFE3-150EA-8FN1156I	
	LFE3-35EA-7FN484I			LFE3-150EA-7FN1156I	
	LFE3-35EA-6FN484I			LFE3-150EA-6FN1156I	
LFE3-35EA-8FN672C	Pb-Free 672-fpBGA	LFE3-150EA-8FN672C	Pb-Free 672-fpBGA		
LFE3-35EA-7FN672C		LFE3-150EA-7FN672C			
LFE3-35EA-6FN672C		LFE3-150EA-6FN672C			
LFE3-35EA-8FN672I		LFE3-150EA-8FN672I			
LFE3-35EA-7FN672I		LFE3-150EA-7FN672I			
LFE3-35EA-6FN672I		LFE3-150EA-6FN672I			
LFE3-70EA	LFE3-70EA-8FN1156C	Pb-Free 1156-fpBGA	LFE3-150EA	LFE3-150EA-8FN672C	Pb-Free 672-fpBGA
	LFE3-70EA-7FN1156C			LFE3-150EA-7FN672C	
	LFE3-70EA-6FN1156C			LFE3-150EA-6FN672C	
	LFE3-70EA-8FN1156I			LFE3-150EA-8FN672I	
	LFE3-70EA-7FN1156I			LFE3-150EA-7FN672I	
	LFE3-70EA-6FN1156I	LFE3-150EA-6FN672I			
	LFE3-70EA-8FN484C	Pb-Free 484-fpBGA		LFE3-150EA-8FN672C	Pb-Free 672-fpBGA
	LFE3-70EA-7FN484C			LFE3-150EA-7FN672C	
	LFE3-70EA-6FN484C			LFE3-150EA-6FN672C	
	LFE3-70EA-8FN484I			LFE3-150EA-8FN672I	
	LFE3-70EA-7FN484I			LFE3-150EA-7FN672I	
	LFE3-70EA-6FN484I	Pb-Free 672-fpBGA		LFE3-150EA-8FN672C	Pb-Free 672-fpBGA
	LFE3-70EA-8FN672C			LFE3-150EA-7FN672C	
	LFE3-70EA-7FN672C			LFE3-150EA-6FN672C	
	LFE3-70EA-6FN672C			LFE3-150EA-8FN672I	
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