



July 18, 2011

**Subject: PCN# 09A-11, 90-Day Notification of Intent to Transition from the MachXO2-1200 "R1" to the Standard MachXO2-1200 Ordering Part Number**

Dear Lattice Customer:

Lattice Semiconductor is providing this 90-day notification of our intent to transition from the LCMXO2-1200 "R1" Ordering Part Numbers (OPNs) for the MachXO2™ family to the standard OPNs (without the "R1" suffix).

The initial production devices of MachXO2-1200 had some data sheet discrepancies documented in the product data sheet ([DS1035 Version 01.3](#), May 2011). As a result the LCMXO2-1200 devices have been supported with a "custom" ordering part number with the "R1" suffix.

#### **DATA SHEET SPECIFICATIONS**

The standard OPN devices meet all data sheet specifications (without the discrepancies associated with the "R1" device). The bit-stream compatibility of the standard OPN devices relative to the "R1" devices is described in Application Note (AN8086) available [here](#). The differences between the "R1" and the standard OPN devices are also listed in the Application Note mentioned above. The MachXO2 Family Data Sheet ([DS1035 Version 01.3](#), May 2011) already includes the standard OPN devices.

#### **AFFECTED DEVICES**

The OPNs affected by this PCN are listed in Exhibit A.

#### **SOFTWARE/PROGRAMMING IMPACT**

There is no impact to software or programming.

#### **CONVERSION TIMING**

Customers are requested to convert to the standard OPN devices no later than October 18, 2011 (90 days from the date of this Notice). Should samples be required to complete evaluation of the standard OPN devices, such sample requests must be received no later than August 18, 2011 (30 days after the date of this Notice). Samples for the standard devices are available today and production material will be available by September 18, 2011.

Lattice strongly recommends customers convert to the standard OPN devices no later than October 18, 2011. In exceptional cases where a customer requires "R1" devices, they will have 6 months to place last time buy (LTB) orders for the "R1" devices (if needed). All LTB orders for the "R1" devices will be non-cancelable and non-returnable. All LTB orders must be placed no later than January 18, 2012 (6 months after the date of this notice) with all deliveries taken no later than July 18, 2012 (12 months after the date of this notice). Orders for the "R1" devices received after January 18, 2012 will only be accepted based on available on-hand inventory.

### **CONVERSION TIMING – SUMMARY**

Sample Request Cut-off Date	August 18, 2011
Conversion Date	No later than October 18, 2011

### **RESPONSE**

In accordance with JESD46C and JESD48B, 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](mailto:pcn@latticesemi.com).

Sincerely,

Lattice Semiconductor PCN Administration

## EXHIBIT A - "R1" to Standard OPN Conversion List

Device	Package	Current Part Number	New/ Replacement Part Number
LCMXO2-1200HC	Halogen-Free 144-TQFP	LCMXO2-1200HC-6TG144CR1	LCMXO2-1200HC-6TG144C
		LCMXO2-1200HC-5TG144CR1	LCMXO2-1200HC-5TG144C
		LCMXO2-1200HC-4TG144CR1	LCMXO2-1200HC-4TG144C
		LCMXO2-1200HC-6TG144IR1	LCMXO2-1200HC-6TG144I
		LCMXO2-1200HC-5TG144IR1	LCMXO2-1200HC-5TG144I
		LCMXO2-1200HC-4TG144IR1	LCMXO2-1200HC-4TG144I
	Halogen-Free 132-csBGA	LCMXO2-1200HC-6MG132CR1	LCMXO2-1200HC-6MG132C
		LCMXO2-1200HC-5MG132CR1	LCMXO2-1200HC-5MG132C
		LCMXO2-1200HC-4MG132CR1	LCMXO2-1200HC-4MG132C
		LCMXO2-1200HC-6MG132IR1	LCMXO2-1200HC-6MG132I
		LCMXO2-1200HC-5MG132IR1	LCMXO2-1200HC-5MG132I
		LCMXO2-1200HC-4MG132IR1	LCMXO2-1200HC-4MG132I
	Halogen-Free 100-TQFP	LCMXO2-1200HC-6TG100CR1	LCMXO2-1200HC-6TG100C
		LCMXO2-1200HC-5TG100CR1	LCMXO2-1200HC-5TG100C
		LCMXO2-1200HC-4TG100CR1	LCMXO2-1200HC-4TG100C
		LCMXO2-1200HC-6TG100IR1	LCMXO2-1200HC-6TG100I
		LCMXO2-1200HC-5TG100IR1	LCMXO2-1200HC-5TG100I
		LCMXO2-1200HC-4TG100IR1	LCMXO2-1200HC-4TG100I
LCMXO2-1200ZE	Halogen-Free 144-TQFP	LCMXO2-1200ZE-3TG144CR1	LCMXO2-1200ZE-3TG144C
		LCMXO2-1200ZE-2TG144CR1	LCMXO2-1200ZE-2TG144C
		LCMXO2-1200ZE-1TG144CR1	LCMXO2-1200ZE-1TG144C
		LCMXO2-1200ZE-3TG144IR1	LCMXO2-1200ZE-3TG144I
		LCMXO2-1200ZE-2TG144IR1	LCMXO2-1200ZE-2TG144I
		LCMXO2-1200ZE-1TG144IR1	LCMXO2-1200ZE-1TG144I
	Halogen-Free 132-csBGA	LCMXO2-1200ZE-3MG132CR1	LCMXO2-1200ZE-3MG132C
		LCMXO2-1200ZE-2MG132CR1	LCMXO2-1200ZE-2MG132C
		LCMXO2-1200ZE-1MG132CR1	LCMXO2-1200ZE-1MG132C
		LCMXO2-1200ZE-3MG132IR1	LCMXO2-1200ZE-3MG132I
		LCMXO2-1200ZE-2MG132IR1	LCMXO2-1200ZE-2MG132I
		LCMXO2-1200ZE-1MG132IR1	LCMXO2-1200ZE-1MG132I
	Halogen-Free 100-TQFP	LCMXO2-1200ZE-3TG100CR1	LCMXO2-1200ZE-3TG100C
		LCMXO2-1200ZE-2TG100CR1	LCMXO2-1200ZE-2TG100C
		LCMXO2-1200ZE-1TG100CR1	LCMXO2-1200ZE-1TG100C
		LCMXO2-1200ZE-3TG100IR1	LCMXO2-1200ZE-3TG100I
		LCMXO2-1200ZE-2TG100IR1	LCMXO2-1200ZE-2TG100I
		LCMXO2-1200ZE-1TG100IR1	LCMXO2-1200ZE-1TG100I