

Date: May 16, 2016

Objective: CBT-90-B-C11-xxxxx Product Change Notification

Dear Valued Luminus Customer:

This letter includes important changes affecting the product listed in this letter that your company has purchased in the past 18 months according to our records.

As part of our continuous performance improvement and product rationalization efforts, we are implementing some performance upgrades to the CBT-90-B product line that result in minor functional changes to the version that you purchased. The CBT-90-B-C11 version is being discontinued and replaced by the CBT-90-B-L11 version which is a drop-in replacement that is expected to work seamlessly in all existing designs. A cross-reference of part numbers between both versions is provided later in this document. In addition, a table summarizing the changes is included in this letter.

The CBT-90-L11 package platform has been in production for several years and is immediately available for evaluation or new orders. This upgraded version is based on an improved die attach material that offers a reduced thermal resistance (low Rth) and no mechanical, electrical or optical redesign work is expected for customers upgrading from the C11 version. A reduced thermal resistance will result in a reduced junction temperature compared to the "C11" model when operating under identical conditions, which will benefit device lifetime and efficiency. Additionally, the upgraded CBT-90-B-L11 version is binned by Radiometric Power (Flux) and Peak Wavelength (Chromaticity) rather than by Lumens and Dominant Wavelength. Proposed replacement parts in the table below meet or exceed performance levels of original parts.

Please contact Luminus Technical Support with any questions regarding incorporation of this new product into your existing designs ([techsupport@luminus.com](mailto:techsupport@luminus.com)). Full datasheet and design files for the CBT-90-L11 can be found on the Luminus web site under "CBT-90-TE": <http://www.luminus.com/products/CBT-90C.html>

Luminus will accept new orders for the CBT-90-B-C11-xxxxx product until September 30, 2016 and last shipments need to take place by December 31, 2016.

The affected products and the recommended replacement are listed on the table below:

Discontinued Part Numbers	Suggested Replacement Part Numbers
CBT-90-B-C11-KJ300	CBT-90-B-L11-G100
CBT-90-B-C11-KJ301	CBT-90-B-L11-G101
CBT-90-B-C11-KK300	CBT-90-B-L11-G100 or CBT-90-B-L11-H100
CBT-90-B-C11-KK301	CBT-90-B-L11-G101 or CBT-90-B-L11-H101
CBT-90-B-C11-KM300	CBT-90-B-L11-H100 or CBT-90-B-L11-J100
CBT-90-B-C11-KM301	CBT-90-B-L11-H101 or CBT-90-B-L11-J101

**Summary of Changes**

Component	Change
Mechanical Specifications	No change
Electrical Specifications	No change
Thermal Specifications	CBT-90-G-C11-xxxxx / Standard Rth: $R_{j-b}=0.8^{\circ}\text{C}/\text{W}$ CBT-90-G-L11-xxxxx / Low Rth: $R_{j-b}=0.5^{\circ}\text{C}/\text{W}$
Optical Specifications	Different bin definitions
Part Numbering	Package code changed to L11; bin kit names redefined
Materials (ROHS / REACH / Conflict Minerals)	No impact
LED Chip Mfg. Location	No change
Package Assembly Location	No change

Luminus apologizes for the inconvenience this transition may cause and is committed to work with your team to allocate last material and help with this transition. Please contact your local sales representative or Luminus Customer Service ([cs@luminus.com](mailto:cs@luminus.com)) if you have questions regarding this product notification.