



CHANGE COMMUNICATION FORM

FRM-000621 - Rev 02

TRACKING #	PCN-000052	TYPE OF CHANGE	Minor Implementation PCN	DATE OF PCN	7/15/2022
DESCRIPTION OF CHANGE	Epitaxial material improvement affecting CBT-90-G-L11 – Implementation PCN (follow up to PCN-000018)				
DETAILS OF CHANGE					
Dear Customer:					
You are receiving this notification because of a part number change affecting the LEDs that you have purchased in the past 24 months.					
This PCN is a follow up to PCN-000018 which was issued in February 2021 and provides additional detail about the impact of the epitaxial material improvement on the actual performances of the product.					
From			To		
Legacy epitaxial material			New epitaxial material as communicated in February 2021		
REASON FOR CHANGE					
Change in epitaxial material was motivated by obsolescence of current material and production equipment. The replacement material is largely equivalent but results in performance improvements affecting lumen output and forward voltage.					
As a result of these functional changes, a new datasheet was released reflecting the new characteristics and new ordering part numbers have been assigned to the modified product to allow easier material separation.					
AFFECTED PRODUCT LIST					
<i>Retired Part Number</i>			<i>Replaced by New Part Number</i>		
CBT-90-G-L11-CM100			CBT-90-G-L11-CM100-R2		
CBT-90-G-L11-CM101			CBT-90-G-L11-CM101-R2		
CBT-90-G-L11-CM102			CBT-90-G-L11-CM102-R2		
CBT-90-G-L11-CM102S			CBT-90-G-L11-CM102S-R2		
ANTICIPATED IMPACT ON FORM FIT, FUNCTION, QUALITY OR RELIABILITY					
- The change in epitaxial material results in:					
1. an increased in lumen output of 13% at Final Test conditions (from 2300 lumens typical to 2600 lumens typical)					



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2. a reduction in forward voltage of 1.4V at Final Test conditions (from 4.5V typical to 3.1V typical).

Other product characteristics are mostly unaffected by this change in epitaxial material. Reliability is equivalent as with the previous material.

SCHEDULE OF Qualifications

Actions	Status	Result
Release new ordering part numbers	Completed	Completed on 02/11/22
Release new Product Datasheet	Completed	Completed on 02/15/22
Release new Reliability Qualification Report	Completed	Completed on 06/05/22
DATE OF AVAILABILITY OF QUALIFICATION DATA	Immediate	
DATE OF AVAILABILITY OF QUALIFICATION SAMPLES	Immediate	
METHOD OF IDENTIFYING CHANGED PRODUCT	New ordering part numbers. Serial number provides full traceability.	
PLACE LAST PURCHASE ORDER BY	N/A	
AVAILABILITY OF CHANGED PRODUCTS	Immediate	

TO BE FILLED BY CUSTOMER

Date of PCN Acknowledgement	
Name /Title	
Signature	
- Please acknowledge receipt of the PCN within 30 days of delivery of the PCN.	
- Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.	