

Date: 01/16/2015

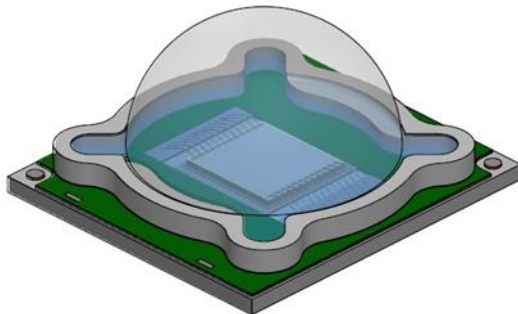
**Description of the change: Manufacturing transfer of Luminus SST-90-W series**

Dear Customer:

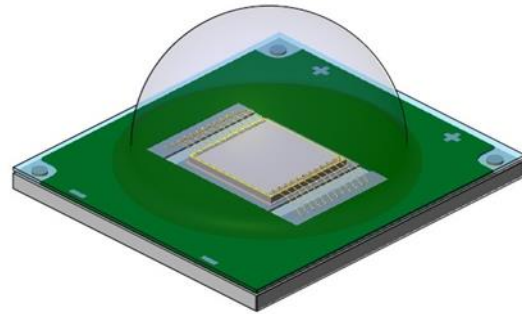
You are receiving this letter due to an upcoming change in manufacturing affecting the SST-90-W series that our records indicate you have purchased in the past 18 months.

As part of continuous optimization of our operations, Luminus is announcing a manufacturing transfer for the SST-90-W series to leverage the infrastructure of our existing Contract Manufacturing (CM) partners in Asia. This change affects both the production of the die as well as the back-end packaging operations.

This change includes the implementation of an upgraded package process and a transition from a lens-attach approach to a silicon over-molding process. As a result, the lens-holding frame visible on the current package will not be necessary anymore and will be eliminated. The dome of the over-molded LED will be compatible in dimensions and optical properties with the current lens-based version and the product is expected to be 100% backwards compatible with the existing design. The drawing below pictures the current product side-by-side with the upcoming over-molded version.



*Original SST-90 – Glass lens with frame*



*Over-molded version of the SST-90*

The products built with the over-molded process will meet the same specification and rigorous quality standard as the current product manufactured in Massachusetts, USA. Both versions are compatible and will ship concurrently during a transition period.

Ordering part number will remain unchanged and no specific action is requested from customers. A summary of changes for the over-molded product is provided in section 3 of this document.

**1. Affected Products**

Products series listed below are under the scope of this notification:

SST-90-W57S	SST-90-W65S	SST-90-WDLS
SSR-90-W57S	SSR-90-W65S	SSR-90-WDLS

Please refer to the annex of this document for a list of all ordering part numbers affected by this change

## 2. Purpose

- Leverage established offshore production capacity providing increased flexibility and scalability

## 3. Scope of changes

Ordering Part Number	No Change, over-molded version will ship against the same part number as current products
Product Specification	Revised PDS-001342 document (rev 13) to add drawing of the new over-molded version. No change in parametric specifications
LED chip production facility	Changing from Woburn, MA, USA to Xiamen, China
LED package assembly and test	Changing from Billerica, MA, USA to Taiwan CM manufacturing partner selected has produced the majority of Luminus LED products for over 5 years
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):	None, with the exception of the removal of the metal frame
Environmental compliance & Materials	As all Luminus LED products, the SST-90-W sourced from Luminus Asian CM partners is compliant with an extensive range of standards including: <ul style="list-style-type: none"> <li>- RoHS</li> <li>- REACH</li> <li>- Conflict Minerals (DRC – US Dodd Frank Act)</li> </ul>

## 4. Identification of products

Products from current manufacturing source can be visually identified by the presence of a metal frame on the substrate, embedded in the lens (or dome) of the LED. This frame is absent from products manufactured by our CM partner.

## 5. Schedule

Products sourced from Luminus Contract Manufacturing partners may start shipping from March 30<sup>th</sup>, 2015. During a transition period, Luminus may ship products from either the current or new source against customer's orders.

An updated product datasheet (PDS-001342, revision 13) showing the over-molded package version is available.

Customer samples of devices with the over-molded design will be available from February 23, 2015 for select bin kits

Thank you for using Luminus LED products and please contact your local sales representative or Luminus Customer Service ([cs@luminus.com](mailto:cs@luminus.com)) if you have questions regarding this product change notification.



**PRODUCT CHANGE NOTIFICATION**

**Annex**

SST-90-W65S-T11-GN100	SST-90-W65S-F11-GM100	SSR-90-W65S-R11-GM100	SST-90-WDLS-F11-GM150
SST-90-W65S-T11-GN101	SST-90-W65S-F11-GM101	SSR-90-W65S-R11-GM101	SST-90-WDLS-F11-M2150
SST-90-W65S-T11-GN102	SST-90-W65S-F11-GM102	SSR-90-W65S-R11-GM102	SST-90-WDLS-F11-M3150
SST-90-W65S-T11-N2100	SST-90-W65S-F11-M2100	SSR-90-W65S-R11-M2100	SST-90-WDLS-F11-GN150
SST-90-W65S-T11-N2101	SST-90-W65S-F11-M2101	SSR-90-W65S-R11-M2101	SST-90-WDLS-F11-N2150
SST-90-W65S-T11-N2102	SST-90-W65S-F11-M2102	SSR-90-W65S-R11-M2102	SST-90-WDLS-F11-N3150
SST-90-W65S-T11-N3100	SST-90-W65S-F11-M3100	SSR-90-W65S-R11-M3100	
SST-90-W65S-T11-N3101	SST-90-W65S-F11-M3101	SSR-90-W65S-R11-M3101	SSR-90-WDLS-R11-GM150
SST-90-W65S-T11-N3102	SST-90-W65S-F11-M3102	SSR-90-W65S-R11-M3102	SSR-90-WDLS-R11-M2150
	SST-90-W65S-F11-GN100	SSR-90-W65S-R11-GN100	SSR-90-WDLS-R11-M3150
SST-90-W57S-T11-GN200	SST-90-W65S-F11-GN101	SSR-90-W65S-R11-GN101	SSR-90-WDLS-R11-GN150
SST-90-W57S-T11-GN201	SST-90-W65S-F11-GN102	SSR-90-W65S-R11-GN102	SSR-90-WDLS-R11-N2150
SST-90-W57S-T11-N2200	SST-90-W65S-F11-N2100	SSR-90-W65S-R11-N2100	SSR-90-WDLS-R11-N3150
SST-90-W57S-T11-N2201	SST-90-W65S-F11-N2101	SSR-90-W65S-R11-N2101	
SST-90-W57S-T11-N3200	SST-90-W65S-F11-N2102	SSR-90-W65S-R11-N2102	SST-90-WDLS-T11-GN150
SST-90-W57S-T11-N3201	SST-90-W65S-F11-N3100	SSR-90-W65S-R11-N3100	SST-90-WDLS-T11-N2150
	SST-90-W65S-F11-N3101	SSR-90-W65S-R11-N3101	SST-90-WDLS-T11-N3150
	SST-90-W65S-F11-N3102	SSR-90-W65S-R11-N3102	
	SST-90-W57S-F11-GM200	SSR-90-W57S-R11-GM200	
	SST-90-W57S-F11-GM201	SSR-90-W57S-R11-GM201	
	SST-90-W57S-F11-M2200	SSR-90-W57S-R11-M2200	
	SST-90-W57S-F11-M2201	SSR-90-W57S-R11-M2201	
	SST-90-W57S-F11-M3200	SSR-90-W57S-R11-M3200	
	SST-90-W57S-F11-M3201	SSR-90-W57S-R11-M3201	
	SST-90-W57S-F11-GN200	SSR-90-W57S-R11-GN200	
	SST-90-W57S-F11-GN201	SSR-90-W57S-R11-GN201	
	SST-90-W57S-F11-N2200	SSR-90-W57S-R11-N2200	
	SST-90-W57S-F11-N2201	SSR-90-W57S-R11-N2201	
	SST-90-W57S-F11-N3200	SSR-90-W57S-R11-N3200	
	SST-90-W57S-F11-N3201	SSR-90-W57S-R11-N3201	