

Light is OSRAM

15.05.2019

Dear Customer,

please find attached our OSRAM OS PCN:

OS-PCN-2019-009-A

Introduction of next generation High Power Thinfilm and UX:3 chips in OSRAM OSTAR Projection compact and Stage packages

Important information for your attention:

Please review the **Customer approval form** at the end of the document and provide your feedback to your OSRAM OS sales partner before **15.06.2019**. *)

Your prompt reply will help OSRAM OS to assure a smooth and well executed transition. If OSRAM OS does not hear from your side by the due date, we will assume your (if you are a Distributor: and your customer's) full acceptance to this proposed change and its implementation.

OSRAM OS understands the time requirements your organization needs to approve this PCN. However, if you can provide OSRAM OS an estimated date your organization will approve this PCN, OSRAM OS can use this date to plan continued production to secure your order needs during the transition time you require to review and approve this PCN.

Your attention and response to this matter is highly appreciated.

Please direct your inquiries to your local Sales office.

*) OSRAM OS aligns with the widely-recognized JEDEC STANDARD "JESD46-C", which stipulates:

- "Customers should 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."
- "After acknowledgement, lack of additional response within the 90 day period constitutes acceptance of the change. An acceptance or concern response should be submitted to the supplier in a timely fashion, (i.e., customer should not wait to the end of the 90 day review period before responding, if the response is known before that time.)"

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Subject of change:	Introduction of next generation High Power Thinfilm and UX:3 chips	
Affected products	KP CSLNM1.F1, KW CSLNM1.TG, KB CSLNM1.14, KR CSLNM1.23, LE RTDUW S2WN, LE RTDUW S2WP, LE RTDCY S2WN	
Reason for change:	Thinfilm: Brightness increase UX:3: Brightness increase, Quality improvement	
Description of change	Thinfilm: Optimization of intrinsic chip design UX3:	
	<u>Current status</u>	<u>New status</u>
	Laser dicing	Plasma dicing
	Non-optimized via diameter	Optimized via diameter
	Ag mirror at chip edge	No Ag mirror at chip edge
Product identification:	Date code / Laser marking on device	
Time schedule for PCN material (after implementation of change):	Final qualification report	available
	Samples available	yes
	Intended Start of delivery	15.07.2019 ^{*)} <small>*) or earlier if released by customer and upon mutual agreement</small>
Time schedule for Pre-PCN material (prior to implementation of change):	Last time order date (LTO)	15.10.2019 ^{**)} <small>**) expected approval date needs to be available at this time. Lead time and LTO quantity shall be mutually agreed between OSRAM OS and customer.</small>
	Last time delivery date (LTD)	15.12.2019 ^{***)} <small>***) planned last date for delivery of products of current status</small>

Assessment:

Thinfilm: no change in outer chip dimension appearance or reliability

UX:3: no change in fit / form / function or reliability

Documentation:

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3_cip_OS-PCN-2019-009-A_Rel

Note:

Pre-PCN material: Products of current status, means before implementation of the changes as described in the PCN.

PCN material: Products with implementation of the changes as described in the PCN.

Customer approval form

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Please list product(s) affected in your application(s):

Please check the appropriate box below:

- | | |
|---|---|
| <input type="radio"/> Approval:
We agree with the proposed change and accept start of the shipment upon availability of PCN material. | <input type="radio"/> Not relevant:
Change is not relevant for products in use. |
|---|---|
- Change cannot be accepted:**
- We have objections:**
 - We request following Information:**
 - We request following Samples:**
 - Expected approval date:** dd.mm.yyyy
 - Volume requirements for Pre-PCN material:**

Sender:

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.

OSRAM Opto Semiconductors
GmbH

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