

Light is OSRAM



15.03.2021

Dear Customer,

please find attached our OSRAM OS PCN:

OS-PCN-2020-016-A Harmonization of OSOLON Boost HM 1 chip with respect to color over angle and color binning.

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 **20.04.2021**. *)

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-B", 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 90day period constitutes acceptance of the change."

OS-PCN-2020-016-A

Harmonization of OSOLON Boost HM 1 chip with respect to color over angle and color binning

Subject of change:	Color over angle behavior and harmonization of color binning (new Forward lighting binning 4L07M0)	
Affected products	KW CELMM1.TG	
Reason for change:	Family harmonization: <ul style="list-style-type: none">- same color over angle behavior- same color binning within OSOLON Boost HM family Introduction of DMC for improved traceability	
Description of change	Refer to attached file 2_CIP_OS-PCN-2020-016-A	
Product identification:	PCN label	
Time schedule for PCN material (after implementation of change):	Current qualification report	Valid and available
	Samples available	15.03.2021
	Data sheet	15.03.2021
	Intended Start of delivery	15.06.2021 *) *) or earlier if released by customer and upon mutual agreement
Time schedule for Pre-PCN material (prior to implementation of change):	Last time order date (LTO)	15.09.2021 **) **) expected approval date needs to be available at this time. Lead time and LTO quantity shall be mutually agreed between OSRAM OS and customer.
	Last time delivery date (LTD)	15.12.2021 ***) ***) planned last date for delivery of products of current status
Assessment:	No change in fit / form / or reliability Same color binning within OSOLON Boost HM and OSOLON Compact PL family	
Documentation:	2_CIP_OS-PCN-2020-016-A	

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

OS-PCN-2020-016-A

Harmonization of OSRON Boost HM 1 chip with respect to color over angle and color binning

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.

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GmbH
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PCN OS-PCN-2020-016-A

Harmonization of OSLON Boost HM 1 chip with respect to color over angle and color binning

OS QM CQM A EXT | 2021-03-15

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OS-PCN-2020-016-A

Harmonization of OSOLON Boost HM 1 chip with respect to color over angle and color binning

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Reason of Change

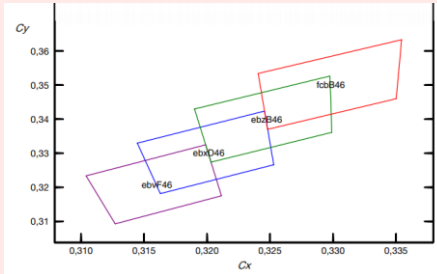
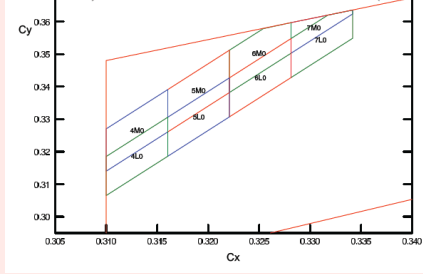
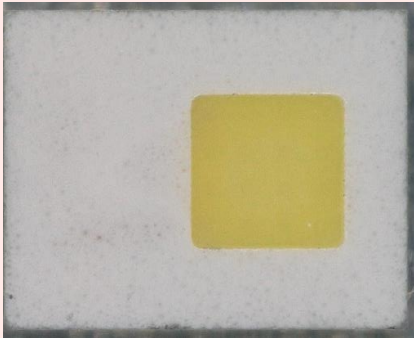
- Harmonization within OSOLON Ceramic product families
 - OSOLON Boost HM to have same color binning as OSOLON Compact PL “Gen2” products
 - OSOLON Boost HM to have same color over angle behavior
- Introduction of DMC for improved traceability

OS-PCN-2020-016-A

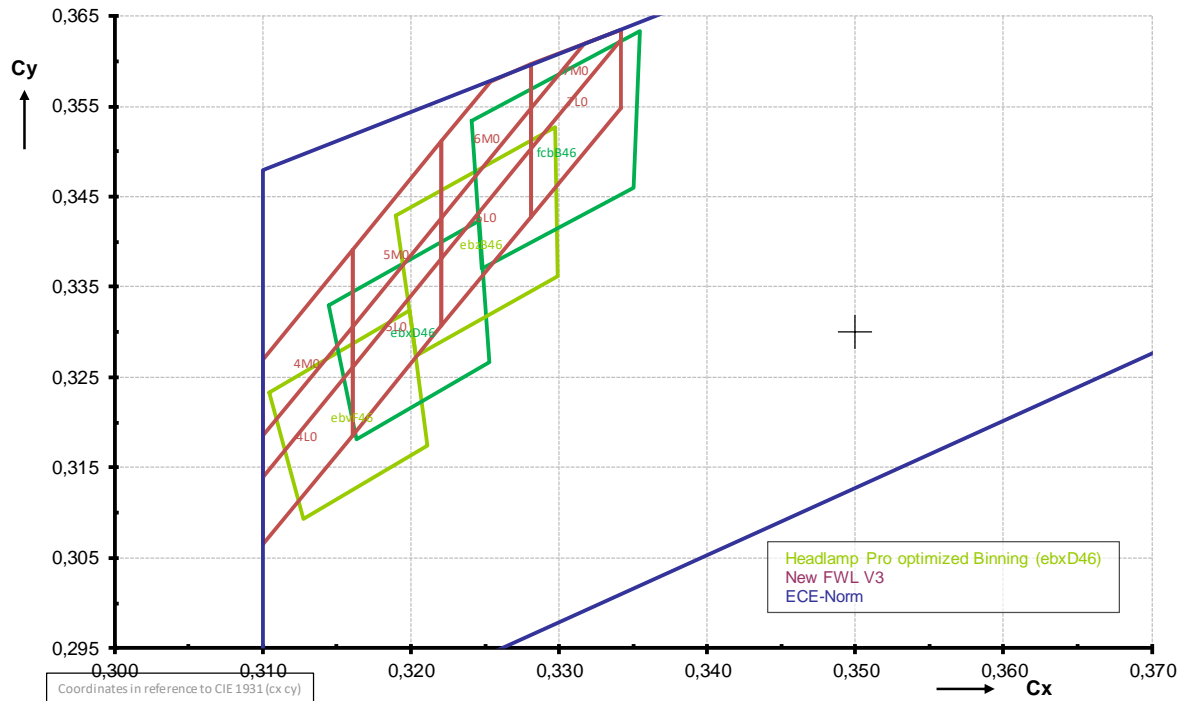
Harmonization of OSLOM Boost HM 1 chip with respect to color over angle and color binning



Description of change:

Change item	Current status	New status
Color binning		
Datasheet Q-code	KW CELMM1.TG-S3SA- EBVFFCBB46-8F8H-A50-S Q65112A9875	KW CELMM1.TG-S3SB- 4L07M0-8F8H-A50-S Q65113A0743
Mold Compound	Lower optical density Higher side emission	Higher optical density Lower side emission
Introduction of DMC for improved traceability		

OS-PCN-2020-016-A: OSLON Boost HM comparison old vs new color binning 4L07M0

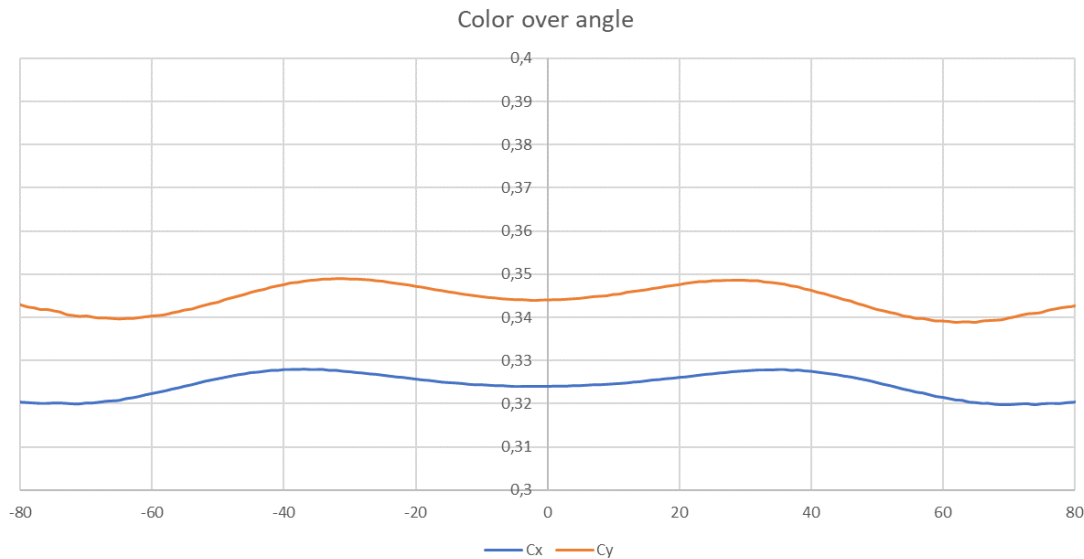


OS-PCN-2020-016-A : OSLO Boost HM

Superior color over angle behavior

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Color over angle characteristic



Delta Cx<0.005 / Delta Cy<0.01 @ +/-60°

OS-PCN-2020-016-A

Harmonization of OSLOON Boost HM 1 chip with respect to color over angle and color binning

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Affected product:

OSLOON Boost HM

KW CELMM1.TG

PCN samples

OSLOON Boost HM

KW CELMM1.TG

 available

OS-PCN-2020-016-A

Harmonization of OSLO Boost HM 1 chip with respect to color over angle and color binning



Time schedule

for PCN material
(after implementation
of change):

Samples available

15.03.2021

Intended Start of delivery

15.06.2021 *)

*) or earlier if released by customer and upon mutual agreement

for Pre-PCN material
(prior to implementation
of change):

Last time order date (LTO)

15.09.2021 **)

***) expected approval date needs to be available at this time. Lead time and LTO quantity shall be mutually agreed between OSRAM OS and customer.

Last time delivery date (LTD)

15.12.2021 ***)

***) planned last date for delivery of products of current status

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.

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Thank you.

Notification	Q-Number	Q-Description	Device Family	Brand
OS-PCN-2020-016-A	Q65112A7693	KW CELMM1.TG-S2S6-ebzB46fcbB46-8F8H-ZKW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A7693	KW CELMM1.TG-S2S6-ebzB46fcbB46-8F8H-ZKW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A6480	KW CELMM1.TG-S2S7-ebvFfcbB46-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A6480	KW CELMM1.TG-S2S7-ebvFfcbB46-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A6480	KW CELMM1.TG-S2S7-ebvFfcbB46-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A9875	KW CELMM1.TG-S3SA-ebvFfcbB46-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A9875	KW CELMM1.TG-S3SA-ebvFfcbB46-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A0743	KW CELMM1.TG-S3SB-4L07M0-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A0743	KW CELMM1.TG-S3SB-4L07M0-8F8H-A50-S	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A8727	KW CELMM1.TG-S4S6-ebxD46ebzB46-8F8H-S-HV	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A8727	KW CELMM1.TG-S4S6-ebxD46ebzB46-8F8H-S-HV	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A9232	KW CELMM1.TG-S4SC-ebzBfcbB46-1-R18-S-ZKW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A1914	KW CELMM1.TG-S4SC-ebzBfcbB46-1-R18-ZKW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A9685	KW CELMM1.TG-S4SC-ebzBfcbB46-1-S-S57-ZKW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65112A9684	KW CELMM1.TG-S4SC-ebzBfcbB46-1-S-S94-ZKW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A2172	KW CELMM1.TG-S5S8-ebxDebzB46-1-A50-S-GW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A2172	KW CELMM1.TG-S5S8-ebxDebzB46-1-A50-S-GW	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A1136	KW CELMM1.TG-X3X6-5L06L0-2464-350-S-HE	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A1136	KW CELMM1.TG-X3X6-5L06L0-2464-350-S-HE	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A1139	KW CELMM1.TG-X3X8-5L06L0-2464-350-R18-HE	KW CELMM1_Tx	OSLON
OS-PCN-2020-016-A	Q65113A1139	KW CELMM1.TG-X3X8-5L06L0-2464-350-R18-HE	KW CELMM1_Tx	OSLON