

Light is OSRAM



05. May 2015

Dear Customer,

please find attached our OSRAM OS PCN:

OS-PCN-2015-017-A General improvement on OSRAM OSTAR Projection Cube

Important information for your attention:

Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **05. June 2015**.

OSRAM OS aligns with the widely-recognized JEDEC STANDARD "JESD46-B", which stipulates: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change".

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 full acceptance to this proposed change and its implementation.

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.

Your attention and response to this matter is highly appreciated.

Please direct your inquiry to your local Sales office.

OS-PCN-2015-017-A

General improvement on OSRAM OSTAR Projection Cube

Subject of change: General improvement on OSRAM OSTAR Projection Cube

Products affected: Please refer to separate product list for further details

Reason of change: Introduction of improvements will lead to increase of the product quality level

Description of change:

1. New automatically optical inspection and judgment will be introduced (100 % Auto VI)
2. An additional type sorter/taper will be implemented
3. Tapeless sawing without lamination process step will be introduced

For a detailed overview, please refer to
2_cip-OS-PN-2015-017-A

Product identification: Date code

	Qualification report	CW26, 2015
	Samples available	on request *) *) please contact your local sales partner
	Production release	CW26, 2015
	Start of delivery	CW27, 2015

Assessment: No change in product data sheet.
The electro-optical properties of the device will remain unchanged.

Documentation: 2_cip_OS-PCN-2015-017-A
3_cip_OS-PCN-2015-017-A (interim available CW22, 2015)

Customer approval form

OS-PCN-2015-017-A

General improvement on OSRAM OSTAR Projection Cube

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

Please check the appropriate box below:

Agreement: We agree with the proposed change and accept start of the shipment upon availability of the new version.

Objections: We have objections:

Information requested: We need the following information:

Samples requested: We need the following samples:

Sender

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.

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OSRAM
Opto Semiconductors

OS-PCN-2015-017-A

General improvement on OSRAM OSTAR Projection Cube

OS QM DE4 CQM PS | 06. May 2015

Light is OSRAM

General improvement on OSRAM OSTAR Projection Cube

Customer Information Package:

- Subject of Changes
- Reason of change
- Description of change
- Time schedule

General improvement on OSRAM OSTAR Projection Cube

Subject of Changes:

1. Introduction of automatically optical inspection
2. Introduction of additional type sorter/taper
3. Introduction of tapeless sawing

General improvement on OSRAM OSTAR Projection Cube

Reason of Changes:

1. Ensure reliable inspection, new automatically optical inspection and judgment will be introduced (100 % Auto VI)
2. Due to capacity extension an additional type sorter/taper will be implemented
3. To reduce manual handling, tapeless sawing without lamination process step will be introduced

Introduction of improvements will lead to increase of the product quality level

General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

- 1. Ensure reliable inspection, new automatically optical inspection and judgment will be introduced (100 % Auto VI)**
2. Due to capacity extension an additional type sorter/taper will be implemented
3. To reduce manual handling, tapeless sawing without lamination process step will be introduced

General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

1. Ensure reliable inspection, new automatically optical inspection and judgment will be introduced (100 % Auto VI)

Current	New
 <p data-bbox="510 1251 900 1342">Semi Auto VI Auto Index with Human Judgment Unit Inspection on Foil</p>	 <p data-bbox="1391 1251 1742 1342">100% Automated VI Without Human Judgment Inspection with singulated unit</p>

General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

1. Ensure reliable inspection, new automatically optical inspection and judgment will be introduced (100 % Auto VI)
- 2. Due to capacity extension an additional type sorter/taper will be implemented**
3. To reduce manual handling, tapeless sawing without lamination process step will be introduced

General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

2. Due to capacity extension an additional type sorter/taper will be implemented

New



- Use the same test program from current Sorter
- Bowl Input mechanism instead of foil input

General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

1. Ensure reliable inspection, new automatically optical inspection and judgment will be introduced (100 % Auto VI)
2. Due to capacity extension an additional type sorter/taper will be implemented
3. **To reduce manual handling, tapeless sawing without lamination process step will be introduced**

General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

3. To reduce manual handling, tapeless sawing without lamination process step will be introduced



General improvement on OSRAM OSTAR Projection Cube

Description of Changes:

To reduce manual handling, tapeless sawing without lamination will be introduced (flow includes also 100% Auto VI)



General improvement on OSRAM OSTAR Projection Cube

Time schedule:

Final qualification report	CW26, 2015
Interim qualification report	CW22, 2015
Samples available	available
Production release	CW26, 2015
Start of delivery	CW27, 2015
	or earlier if released by customer

Many Thanks.

Products Affected by Product Change Notification

Number: OS-PCN-2015-017-A

Name:

Release Date: 5/5/2015

Response Due Date: 6/5/2015

Implementation Date: 7/3/2015

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
LCG H9RM	Q65111A1779	LCG H9RM-KZLZ-1-0-350-R18-Z	LCG H9RM-KZLZ-1-Z
	Q65111A2498	LCG H9RM-LXLZ-1-0-350-R18-Z	LCG H9RM-LXLZ-1-Z
	Q65111A5031	LCG H9RM-LYLZ-1-0-350-R18-Z-SA	LCG H9RM-LYLZ-1-SA
	Q65111A6337	LCG H9RM-LXLY-1-0-350-R18-Z-PR	LCG H9RM-LXLY-1-Z-PR
LCG H9RN	Q65111A1778	LCG H9RN-MYNY-1-0-700-R18-Z	LCG H9RN-MYNY-1
	Q65111A3831	LCG H9RN-MYNX-1-0-700-R18-Z	LCG H9RN-MYNX-1-Z
	Q65111A4963	LCG H9RN-NXNY-1-0-700-R18-Z-XX	LCG H9RN-NXNY-1-XX