Light is OSRAM



01.06.2018

Dear Customer,

please find attached our OSRAM OS PCN:

OS-PCN-2018-006-A Introduction of additional Frontend production location Kulim for CERAMOS and OSLON Black Flat

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 **07.07.2018**.

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: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change".

OS-PCN-2018-006-A Introduction of additional Frontend production location Kulim for CERAMOS and OSLON Black Flat

Subject of change:	Introduction of additional Frontend production location Kulim for CERAMOS and OSLON Black Flat		
Affected products	CERAMOS family: CW CBLPM4.EN, CW CBLPM4.PU, CW CBLPM4.PW OSLON Black Flat family:		
	SFH 4735		
Reason for change:	 Secure continuous supply – lower risk of allocation Increase chip production capacity to meet growing market demand with frontend production at new location Kulim (Malaysia) Chips from all frontend locations (Regensburg, Penang and additionally Kulim) will be used for finished good assembly. Therefore release of all chip production location sites is necessary to ensure deliveries. 		
Description of change	<u>Current status</u> Regensburg and Penang chip production	<u>New status</u> Regensburg, Penang and Kulim chip production Please refer to customer information package for details.	
Product identification:	Date code		
	Final qualification report	available	
	Samples	Please refer to customer information package.	
Time schedule:	Start of delivery	01.08.2018*)	
		*) or earlier if released by customer	
	Last time order date	01.08.2019 ^{**)} **) last date for ordering products of current production	

	Last time delivery date	01.02.2020 ^{***)} ***) last delivery for products of current production	
	No changes in electrical and optical parameters.		
Assessment:	No change in fit / form / fur	No change in fit / form / function or reliability.	
	Chips from all production locations are fully mixable.		
	Customer information package:		
	2_cip_OS-PCN-2018-006-A_ext		
Documentation:			
	Qualification report:		
	3_qual_OS-PCN-2018-006-A_ext		

Customer approval form

OS-PCN-2018-006-A Introduction of additional Frontend production location Kulim for CERAMOS and OSLON Black Flat

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:

O Information requested: We need the following information:

Samples requested: We need the following samples:

Sender

Company:

Adress / Location:

Signature:

Date:

OSRAM Opto Semiconductors GmbH

Head Office:

Leibnizstrasse 4 93055 Regensburg, Germany Phone +49 941 850-5 Fax +49 941 850-1002 www.osram-os.com





PCN OS-PCN-2018-006-A Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat

OS QM CQM | 01.06.2018

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Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat



Overview

- Secure continuous supply lower risk of allocation
- Increase chip production capacity to meet growing market demand with frontend production at new location Kulim (Malaysia)
- Chips from all frontend locations (Regensburg, Penang and additionally Kulim) will be used for finished good assembly.
- Therefore release of all chip production location sites is necessary to ensure deliveries.
- no change in fit / form / function or reliability
- Chips from all productions sites are fully mixable.



Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat



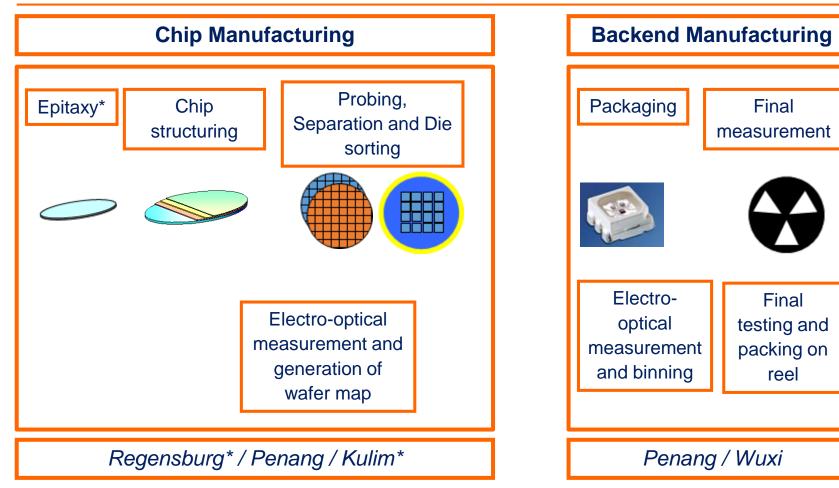
Description of change

Current status	New status
Chip production inRegensburg / GermanyPenang / Malaysia	 Chip production in Regensburg / Germany Penang / Malaysia Kulim / Malaysia



Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat







Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat



Certification

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ICADO 🔳 CERTIFICAT	CERTIFICATE	CERTIFICADO = CERTIFICAT	12 111 46	Max cate Registration No.: 091/08 TMS te No.: 0249078
DUKAT – CERTIFICADO	The Cartification Body of TÜV SÜD Management Service GmbH certifies that OSRAM Opto Semiconductors (Malaysia) SDN. BHD Bayan Lepas Free Industrial Zone Phase 1 11900 Bayan Lepas, Penang Malaysia	СЕРТИФИКАТ 🔳 СЕRTI	OSRAM Opto Semicondu Bayan Lepas Free In 11900 Bayan Mai The site is supported by the following	idustrial Zone Phase 1 Lepas, Penang aysia
■ СЕРТИФИКАТ	has established and applies a Quality Management System for Deslign, development and manufacturing of opto semiconductor water, opto electronic components and displays (with Product Design as per Chapter 7.3).	СЕРТИ	Address ORRAM (Malaysia) Sdn Bhd. 38 Jalen Sutten Ahmed Bhah Lot 11.02, 11th Fixor, Bangunan KWSP 10050 Georgetown, Penang Melaysia	Supporting functions Finance, Human resources, Purchasin Aftersales. Contract review. Customer
書題證證	An audit was performed and has furnished proof that the requirements according to ISO/TS 16949:2009 Third Edition 2009-06-15	₽ 顕顕鏡	OBRAM Opto Semiconductors GmbH Latinizatro64 4 03055 Regensburg Germany OBRAM Opto Semiconductors, Inc. Killer Road 1150 Sunnyveik, California, CA 94086	Customer service, Logistics, Marketing Customer service, Logistics, Marketing Customer service, Logistics, Marketing
CERTIFICATE	are fulfilled. Issue date: 2016-01-06 Expiry date: 2018-09-14 Certificate Registration No.: 12 111 46091/08 TMS IATF Certificate No.: 0249078 Part of the certificate is an appendix.	CERTIFICATE	UBA The site is supported by the following OSRAM Opto Semicondu Zon industri Fasa 1, Tim. F D9000 Kedah Danul Aman, Malaysia	otor (Malaysia) Sdn. Bhd Perindustrian Hi-Tech Kulim,
ZERTIFIKAT	M. Lucy Product Compliance Management March 2017-05-05 Page 1 of 2 TOV SDD Management Service GetH + 2ntHisterangestells + Ridestration Get + 80033 Minchen + Germany news trav-used de/bartificato-validity-check	ZERTIFIKAT		2017-09-26 • 2 of 2 Riderstraße 65 • 60023 Minchen • Germany

legistration No.: 8 TMS .: 0249078 (Malaysia) SDN. BHD al Zone Phase 1 Penang locations: orting functions , Human resources, Purchasing es, Contract review, Customer service, cs, Marketing, Policy making, ct design, Purchasing, system management, R&D, Sales, plenning er service, Logistics, Marketing, Sales led manufacturing site(s) laysia) Sdn. Bhd ian HI-Tech Kulim, _ perment

τυν⁴

Note: Kulim is a site extension from Penang





Customer information package OS-PCN-2018-006-A Introduction of additional frontend production location Kulim

Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat



List of affected products

CERAMOS	OSLON Black Flat
CW CBLPM4.EN	SFH 4735
CW CBLPM4.PU	
CW CBLPM4.PW	



Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat



CERAMOS	OSLON Black Flat
CW CBLPM4.EN	SFH 4735
CW CBLPM4.PU	
CW CBLPM4.PW	



available in June 2018 available in July 2018



Introduction of additional frontend production location Kulim for CERAMOS and OSLON Black Flat

Time schedule

- Qualification report:
- Start of delivery:
- Last time order date:
- Last time delivery date:

- available
- 01.08.2018 *)
- *) or earlier if released by customer
- 01.08.2019**)
- **) last date for ordering products of current status
- 01.02.2020 ***) ***) last delivery of products of current status







Thank you.



Products Affected by Product Change Notification

Number: OS-PCN-2018-006-A *Name:* Introduction of additional Frontend production location Kulim for CERAMOS and

OSLON Black Flat

Release Date: 6/1/2018

Response Due Date: 7/7/2018 Implementation Date: 8/1/2018

Product	QNumber	QNumber Description	Part Number
SFH 4735	Q65111A9885	SFH 4735	SFH 4735