

Light is OSRAM

03.09.2018

Dear Customer,

please find attached our OSRAM OS PCN:

OS-PCN-2018-010-A

Introduction of additional frontend production location Kulim for OSOLON Black Flat and SYNIOS P2720

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 **15.10.2018**. *)

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:

- "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."

OS-PCN-2018-010-A

Introduction of additional frontend production location Kulim for OSRON Black Flat and SYNIOS P2720

Subject of change:	Introduction of additional frontend production location Kulim for OSRON Black Flat and SYNIOS P2720	
Affected products	Refer to attached file 2_CIP_OS-PCN-2018-010-A	
Reason for change:	<ul style="list-style-type: none"> Secure continuous supply – lower risk of allocation Increase chip production capacity to meet growing market demand with frontend production at new location Kulim (Malaysia) Follow Mid-Term manufacturing footprint strategy 	
Description of change	Refer to attached file 2_CIP_OS-PCN-2018-010-A	
Product identification:	Date Code or new material number	
Time schedule for PCN material (after implementation of change):	Final qualification report	available
	Samples available	available
	Intended Start of delivery	01.12.2018 ^{*)} <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)	01.08.2019 ^{**)} <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)	01.02.2020 ^{***)} <small>***) planned last date for delivery of products of current status</small>
Assessment:	No change in fit / form / function or reliability	
Documentation:	2_CIP_OS-PCN-2018-010-A 3_CIP_OS-PCN-2018-010-A_Qual 4_CIP_OS-PCN-2018-010-A_Manufacturing_Roadmap	

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-2018-010-A

Introduction of additional frontend production location Kulim for OSRON Black Flat and SYNIOS P2720

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

Head Office:

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

Products Affected by Product Change Notification

Number: OS-PCN-2018-010-A

Name: Introduction of additional frontend production location Kulim for
OSLON Black Flat and Synios P 2720

Release Date: 9/4/2018

Response Due Date: 10/15/2018

Implementation Date: 1/1/2019

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
KW DMLS31.SG	Q65111A6226	KW DMLS31.SG-MLNK-ebvF46fcbB46-1-70	KW DMLS31.SG-MLNK-ebvF46fcbB46-1
	Q65112A0946	KW DMLS31.SG-5MF5N-EBZB46-8E8G-S-	KW DMLS31.SG-5MF5N-EBZB46-8E8G-XX
	Q65112A2082	KW DMLS31.SG-6MF8MF-EBXD46EBZB46	KW DMLS31.SG-6MF8MF-EBXD46EBZB46
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	Q65111A6399	KW H2L531.TE-7P5Q-ebxD46ebzB46-1-AL	KW H2L531.TE-7P5Q-ebxD46ebzB46-1-AL
	Q65111A6591	KW H2L531.TE-6P5Q-ebvF46ebxD46-1-ZK	KW H2L531.TE-6P5Q-ebvF46ebxD46-1-ZK
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	Q65112A1992	KW H2L531.TE-8P5Q-EBXD46-PABA-KO	KW H2L531.TE-8P5Q-EBXD46-PABA-KO
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Q65112A2006	KW H2L531.TE-7P8P-U8-PAMA-HAN	KW H2L531.TE-7P8P-U8-PAMA-HAN	
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<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>	
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<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
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	Q65112A1959	KW H4L531.TE-5R-EBXD46EBZB46-4LZL-	KW H4L531.TE-5R-EBXD46EBZB46-4LZL-
	Q65112A2049	KW H4L531.TE-R67R-EBXD46EBZB46-4LZ	KW H4L531.TE-R67R-EBXD46EBZB46-4LZ
	Q65112A2225	KW H4L531.TE-6R8R-EBXD46EBZB46-4LZ	KW H4L531.TE-6R8R-EBXD46EBZB46-4LZ
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	Q65111A6614	KW H5L531.TE-7R6S-ebxD46ebzB46-1-ZK	KW H5L531.TE-7R6S-ebxD46ebzB46-1-ZK
	Q65111A6709	KW H5L531.TE-7R5S-ebxD46ebzB46-1-AL	KW H5L531.TE-7R5S-ebxD46ebzB46-1-AL
	Q65111A7735	KW H5L531.TE-7R5S-EBXD46EBZB46-KR-	KW H5L531.TE-7R5S-EBXD46EBZB46-KR-
	Q65111A8273	KW H5L531.TE-7R5S-EBXD46EBZB46-KR	KW H5L531.TE-7R5S-EBXD46EBZB46-KR
	Q65111A8371	KW H5L531.TE-8R6S-EBXD46EBZB46-KR-	KW H5L531.TE-8R6S-EBXD46EBZB46-KR-
	Q65112A0098	KW H5L531.TE-8R6S-EBXD46EBZB46-KR	KW H5L531.TE-8R6S-EBXD46EBZB46-KR
	Q65112A1216	KW H5L531.TE-8R7S-EBXD46EBZB46-RS	KW H5L531.TE-8R7S-EBXD46EBZB46-RS
	Q65112A1489	KW H5L531.TE-7R5S-EBXD46EBZB46-RS	KW H5L531.TE-7R5S-EBXD46EBZB46-RS
	Q65112A1867	KW H5L531.TE-7R6S-EBVF46FCBB46-RS	KW H5L531.TE-7R6S-EBVF46FCBB46-RS
	Q65112A1956	KW H5L531.TE-7R5S-EBXD46EBZB46-RS	KW H5L531.TE-7R5S-EBXD46EBZB46-RS
	Q65112A2048	KW H5L531.TE-7RF5SF-EBXD46EBZB46-	KW H5L531.TE-7RF5SF-EBXD46EBZB46-L
	Q65112A2307	KW H5L531.TE-7R5S-FCBB46-RS5R-VAR	KW H5L531.TE-7R5S-FCBB46-RS5R-VAR
	KY DMLS31.FY	Q65111A6197	KY DMLS31.FY-KMLN-5F-1-600-R18
Q65112A2117		KY DMLS31.FY-7KF5LF-5F-8E8G-600-R18-	KY DMLS31.FY-7KF5LF-5F-8E8G-SK
LCY H9PP	Q65111A2815	LCY H9PP-6J5K-5F5G-1-350-R18-Z	LCY H9PP-6J5K-5F5G-1
	Q65111A3482	LCY H9PP-8J6K-5F5G-1-350-R18-Z-ZKW	LCY H9PP-8J6K-5F5G-1-Z-ZKW
	Q65111A3895	LCY H9PP-8J7K-5F5G-1-350-R18-Z-HE	LCY H9PP-8J7K-5F5G-1-Z-HE
	Q65111A4118	LCY H9PP-7J6K-5F5G-1-350-R18-Z	LCY H9PP-7J6K-5F5G-1
	Q65111A4738	LCY H9PP-8J6K-5F5G-1-350-R18-Z-AL	LCY H9PP-8J6K-5F5G-1-Z-AL
	Q65111A4905	LCY H9PP-8J7K-5F5G-1-350-R18-Z-LM	LCY H9PP-8J7K-5F5G-1-Z-LM
	Q65111A5104	LCY H9PP-7J5K-5F5G-1-350-R18-Z-HE	LCY H9PP-7J5K-5F5G-1-Z-HE
	Q65111A5468	LCY H9PP-8J6K-5F-1-350-R18-Z-AL	LCY H9PP-8J6K-5F-1-Z-AL
	Q65111A5946	LCY H9PP-8J7K-5F5G-1-350-R18-Z-NAL	LCY H9PP-8J7K-5F5G-1-Z-NAL
	Q65111A6182	LCY H9PP-8J6K-5F5G-8E8F-350-R18-Z-ST	LCY H9PP-8J6K-5F5G-8E8F-Z-STA
	Q65111A6324	LCY H9PP-8J7K-5F5G-1-350-R18-Z-XX	LCY H9PP-8J7K-5F5G-1-Z-XX
	Q65111A6514	LCY H9PP-8J6K-5F5G-1-350-R18-Z-VL	LCY H9PP-8J6K-5F5G-1-VL
	Q65111A6869	LCY H9PP-8J6K-5F5G-1-350-R18-Z-KO	LCY H9PP-8J6K-5F5G-1-Z-KO
	Q65111A7199	LCY H9PP-7J5K-5F5G-1-350-R18-Z-XX	LCY H9PP-7J5K-5F5G-R18-Z-XX
	Q65111A7762	LCY H9PP-7J5K-5F5G-1-350-R18-Z-SK	LCY H9PP-7J5K-5F5G-1-Z-SK
	Q65111A7824	LCY H9PP-8J6K-5F5G-1-350-R18-Z-NAL	LCY H9PP-8J6K-5F5G-1-Z-NAL
	Q65111A7825	LCY H9PP-7J8J-5F5G-1-350-R18-Z-SK	LCY H9PP-7J8J-5F5G-1-SK
	Q65111A8320	LCY H9PP-8J6K-5F5G-8E8F-350-R18-Z	LCY H9PP-8J6K-5F5G-8E8F-Z

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
LCY H9PP	Q65111A9157	LCY H9PP-5K8K-5F5G-1-350-R18-Z-ZKW	LCY H9PP-5K8K-5F5G-1-Z-ZKW
	Q65111A9247	LCY H9PP-7J6K-5F5G-8E8G-350-R18-Z-V	LCY H9PP-7J6K-5F5G-8E8G-Z-VAR
	Q65111A9863	LCY H9PP-8J6K-5F5G-8E8F-350-R18-Z-ST	LCY H9PP-8J6K-5F5G-8E8F-Z-ST1
	Q65112A0546	LCY H9PP-5K6K-5F5G-1-350-R18-Z-XX	LCY H9PP-5K6K-5F5G-1--Z-XX
	Q65112A1838	LCY H9PP-8J6K-5F5G-8E8G-350-R18-Z	LCY H9PP-8J6K-5F5G-8E8G-Z
LUW HWQP	Q65111A4463	LUW HWQP-8M7N-ebvF46fcbB46-1-1A-R1	LUW HWQP-8M7N-ebvF46fcbB46-1
	Q65111A4793	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N7N-ebxD46ebzB46-1-1A
	Q65111A5300	LUW HWQP-5N7N-ebxD46fcbB46-1-1A-R1	LUW HWQP-5N7N-ebxD46fcbB46-1-1A
	Q65111A5462	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N7N-ebxD46ebzB46-1-ZKW
	Q65111A5469	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N7N-ebxD46ebzB46-1-1A
	Q65111A5552	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N7N-ebxD46ebzB46-1-Z-HE
	Q65111A5799	LUW HWQP-5N6N-ebxB46-1-1A-R18-ZKW	LUW HWQP-5N6N-ebxB46-1-ZKW
	Q65111A6269	LUW HWQP-N68N-ebxD46ebzB46-1-1A-R1	LUW HWQP-N68N-ebxD46ebzB46-1-AL
	Q65111A6296	LUW HWQP-5N6N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N6N-ebxD46ebzB46-1-Z-VL
	Q65111A6332	LUW HWQP-6L8L-ebxD46ebzB46-1-350-R1	LUW HWQP-6L8L-ebxD46ebzB46
	Q65111A6446	LUW HWQP-N67N-ebxD46-8F8G-1A-R18-Z	LUW HWQP-N67N-ebxD46-8F8G-Z-KO
	Q65111A6447	LUW HWQP-N67N-ebxD46-1-1A-R18-Z-KO	LUW HWQP-N67N-ebxD46-1-Z-KO
	Q65111A6448	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N7N-ebxD46ebzB46-1-Z-KO
	Q65111A6454	LUW HWQP-N66N-ebxB46-1-1A-R18-Z-XX	LUW HWQP-N66N-ebxB46-1-1A
	Q65111A6608	LUW HWQP-N67N-ebxD46ebzB46-1-1A-R1	LUW HWQP-N67N-ebxD46ebzB46-1-Z-HE
	Q65111A6619	LUW HWQP-N67N-ebxB46fcbB46-1-1A-R1	LUW HWQP-N67N-ebxB46fcbB46-1-1A
	Q65111A6648	LUW HWQP-5N7N-ebxD46ebzB46-8F8G-1	LUW HWQP-5N7N-ebxD46ebzB46-8F8G-X
	Q65111A6924	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-S-	LUW HWQP-5N7N-ebxD46ebzB46-1-ZS-ZK
	Q65111A7055	LUW HWQP-5N7N-ebxD46ebzB46-1-1A-R1	LUW HWQP-5N7N-ebxD46ebzB46-1-Z-VEN
	Q65111A7571	LUW HWQP-5L8L-EBVF46FCBB46-8E8G-3	LUW HWQP-5L8L-EBVF46FCBB46-8E8G
	Q65111A7987	LUW HWQP-6N8N-EBXD46EBZB46-8F8G-	LUW HWQP-6N8N-EBXD46EBZB46-8F8G-
	Q65111A8023	LUW HWQP-8M7N-EBVF46FCBB46-8E8H-	LUW HWQP-8M7N-EBVF46FCBB46-8E8H
	Q65111A8105	LUW HWQP-N68N-EBXD46EBZB46-8F8H-	LUW HWQP-N68N-EBXD46EBZB46-8F8H-
	Q65111A8274	LUW HWQP-N68N-EBXD46FCBB46-8F8H-	LUW HWQP-N68N-EBXD46FCBB46-8F8H-
	Q65111A8275	LUW HWQP-5N6N-EBXD46EBZB46-8E8H-	LUW HWQP-5N6N-EBXD46EBZB46-8E8H-
	Q65111A9151	LUW HWQP-N67N-EBXD46-8E8F-1A-S-LM	LUW HWQP-N67N-EBXD46-8E8F-LM
	Q65111A9152	LUW HWQP-6N8N-EBXD46EBZB46-8F-1A-	LUW HWQP-6N8N-EBXD46EBZB46-8F-HE
	Q65111A9153	LUW HWQP-6N7N-EBXD46EBZB46-8F-1A-	LUW HWQP-6N7N-EBXD46EBZB46-8F-HE
	Q65111A9154	LUW HWQP-6N7N-EBXD46EBZB46-8E8H-	LUW HWQP-6N7N-EBXD46EBZB46-8E8H-
	Q65111A9155	LUW HWQP-6N7N-EBXD46-8E8F-1A-S-LM	LUW HWQP-6N7N-EBXD46-8E8F-LM
	Q65111A9373	LUW HWQP-N67N-EBZB46FCBB46-8E8H-	LUW HWQP-N67N-EBZB46FCBB46-8E8H-
	Q65111A9374	LUW HWQP-6N8N-EBXD46EBZB46-8F8H-	LUW HWQP-6N8N-EBXD46EBZB46-8F8H-
	Q65111A9454	LUW HWQP-N67N-EBXD46EBZB46-8E8H-	LUW HWQP-N67N-EBXD46EBZB46-8E8H-
	Q65111A9455	LUW HWQP-6L8L-EBXD46EBZB46-8E8G-3	LUW HWQP-6L8L-EBXD46EBZB46-8E8G-
	Q65111A9701	LUW HWQP-6N8N-EBZB46FCBB46-8E8H-	LUW HWQP-6N8N-EBZB46FCBB46-8E8H-
	Q65111A9966	LUW HWQP-6N7N-EBXD46-8E8F-1A-S-VA	LUW HWQP-6N7N-EBXD46-8E8F-VAR
	Q65112A0092	LUW HWQP-5L7L-EBXD46EBZB46-8E8G-3	LUW HWQP-5L7L-EBXD46EBZB46-8E8G-3
Q65112A0255	LUW HWQP-N68N-EBZB46FCBB46-8E8H-	LUW HWQP-N68N-EBZB46FCBB46-8E8H-	
Q65112A0256	LUW HWQP-6N8N-EBXD46EBZB46-8E8G-	LUW HWQP-6N8N-EBXD46EBZB46-8E8G-	
Q65112A0257	LUW HWQP-6N5P-EBXD46EBZB46-8E8G-	LUW HWQP-6N5P-EBXD46EBZB46-8E8G-	
Q65112A0545	LUW HWQP-N67N-EBZB46FCBB46-8F8H-	LUW HWQP-N67N-EBZB46FCBB46-8F8H	
Q65112A0653	LUW HWQP-N67N-EBXD46EBZB46-8F8H-	LUW HWQP-N67N-EBXD46EBZB46-8F8H-	
Q65112A0654	LUW HWQP-6N7N-EBZB46FCBB46-8E8H-	LUW HWQP-6N7N-EBZB46FCBB46-8E8H-	
Q65112A1097	LUW HWQP-N67N-EBXD46-8E8H-1A-R18-	LUW HWQP-N67N-EBXD46-8E8H-Z-HAN	

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
LUW HWQP	Q65112A1129	LUW HWQP-N67N-EBVF46EBXD46-8F8H-	LUW HWQP-N67N-EBVF46EBXD46-8F8H-
	Q65112A1492	LUW HWQP-5N7N-EBXD46EBZB46-8F8G-	LUW HWQP-5N7N-EBXD46EBZB46-8F8G-
	Q65112A1493	LUW HWQP-6N7N-EBXD46EBZB46-8E8G-	LUW HWQP-6N7N-EBXD46EBZB46-8E8G-
	Q65112A1494	LUW HWQP-6N7N-EBXD46EBZB46-8F8H-	LUW HWQP-6N7N-EBXD46EBZB46-8F8H-
	Q65112A1572	LUW HWQP-N67N-EBXD46EBZB46-8E8H-	LUW HWQP-N67N-EBXD46EBZB46-8E8H-
	Q65112A1615	LUW HWQP-N67N-EBXD46EBZB46-8F8H-	LUW HWQP-N67N-EBXD46EBZB46-8F8H-
	Q65112A1616	LUW HWQP-N67N-EBVF46FCBB46-8E8H-	LUW HWQP-N67N-EBVF46FCBB46-8E8H-
	Q65112A1691	LUW HWQP-5N7N-EBZB46FCBB46-8F-1A-	LUW HWQP-5N7N-EBZB46FCBB46-8F-HE
	Q65112A1692	LUW HWQP-N66N-EBXD46-8E8H-1A-S-AL	LUW HWQP-N66N-EBXD46-8E8H-AL
	Q65112A1727	LUW HWQP-5L7L-EBVF46EBXD46-8E8G-3	LUW HWQP-5L7L-EBVF46EBXD46-8E8G-I
	Q65112A1731	LUW HWQP-6L8L-EBXD46EBZB46-1-350-	LUW HWQP-6L8L-EBXD46EBZB46-1-S-NA
	Q65112A2222	LUW HWQP-6N7N-EBXD46EBZB46-8E8G-	LUW HWQP-6N7N-EBXD46EBZB46-8E8G-
	Q65112A2223	LUW HWQP-5N6N-EBXD46FCBB46-8F8G-	LUW HWQP-5N6N-EBXD46FCBB46-8F8G-
	Q65112A2264	LUW HWQP-6N7N-EBZB46-8E8F-1A-S-LM	LUW HWQP-6N7N-EBZB46-8E8F-LM
	Q65112A2265	LUW HWQP-N67N-EBZB46-8E8F-1A-S-LM	LUW HWQP-N67N-EBZB46-8E8F-LM