

OSRAM PCN

OS-PCN-2022-005-A

Introduction of additional backend production location Wuxi for specific OSOLON Compact PL and OSOLON Boost HM devices

01.06.2022

Dear Customer,

please find attached the **OSRAM PCN**:

OS-PCN-2022-005-A

Introduction of additional backend production location Wuxi for specific OSOLON Compact PL and OSOLON Boost HM devices

Dear Customer,

please review this **PCN** and provide your feedback in the **Customer approval form** (at the end of this PCN document) to your ams OSRAM sales partner before **08.07.2022** *).

Please take note, that this PCN is published for the introduction of **an additional production location**.

Your prompt reply will help ams OSRAM to assure a smooth and well executed transition. If ams OSRAM 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.

ams OSRAM understands the time requirements your organization needs to approve this PCN.

However, if you can provide ams OSRAM an estimated date your organization will have finalized this PCN review, ams OSRAM can use this date to plan continued production to secure your order needs during the transition time.

Your attention and response to this matter is highly appreciated.

Please direct your inquiries to your local Sales office.

PCN OS-PCN-2022-005-A

Introduction of additional backend production location Wuxi for specific OSLOM Compact PL and OSLOM Boost HM devices

Subject of change: Introduction of additional backend production location Wuxi for specific OSLOM Compact PL and OSLOM Boost HM devices

Affected products: KW CELNM2.TK, KW2 CFLNM2.TK, KW2 CFLMM1.TK

Reason for change: Extend production capacity, to secure continuous supply

Description of change:	<u>Current status</u>	<u>New status</u>
	Production location Penang/Malaysia	Production location Penang/Malaysia and Wuxi/China

For details refer to file
2_PCN_cip_OS-PCN-2022-005-A

Product identification: Laser marking on device

Time schedule for PCN material: (after implementation of change):	Final qualification report	01.06.2022 (KW CELNM2.TK) 30.12.2022 (KW2 CFLNM2.TK, KW2 CFLMM1.TK)
	Samples available	15.06.2022 (KW CELNM2.TK) 30.12.2022 (KW2 CFLNM2.TK, KW2 CFLMM1.TK)
	Intended Start of delivery	01.09.2022 (KW CELNM2.TK) ^{*)} 01.02.2023 (KW2 CFLNM2.TK, KW2 CFLMM1.TK) ^{*)} <small>*) or earlier if released by customer and upon mutual agreement</small>
	Customer Review Finalization:	01.12.2022 (KW CELNM2.TK) ^{**)} 01.05.2023 (KW2 CFLNM2.TK, KW2 CFLMM1.TK) ^{**)} <small>***) a customer reject or a later customer release might result in tight delivery situations. Released order volume is related to deliveries of material from both previous and additional source(s)</small>

Assessment: no change in fit, form, function or reliability

Documentation: 2_PCN_cip_OS-PCN-2022-005-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 feedback form PCN OS-PCN-2022-005-A

Introduction of additional backend production location Wuxi for specific OSOLON Compact PL and OSOLON Boost HM devices

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. |
| <input type="radio"/> Change cannot be accepted: | |
| <input type="radio"/> We have objections: | |
| <input type="radio"/> We request following Information: | |
| <input type="radio"/> We request following Samples: | |
| <input type="radio"/> Expected approval date: | |
| <input type="radio"/> Volume requirements for Pre-PCN material: | |
| <input type="radio"/> Remarks: | |

Sender:

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.

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OSRAM PCN

OS-PCN-2022-005-A

Introduction of additional backend production location Wuxi for specific OSOLON Compact PL and OSOLON Boost HM devices

Customer information package

OS Q CQM AM
2022-06-01

Agenda

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OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSLON Compact PL and OSLON Boost HM devices

Reason for change

Description
To secure continuous supply
Extend production capacity
Strengthen resilience of supply chain

OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSRON Compact PL and OSRON Boost HM devices

Description of change

Current status	New status
Production location Penang/Malaysia	Production location Penang/Malaysia <u>and:</u> Wuxi/China
No change of fit/form/function and reliability of product ZVEI evaluation level C	

Current: PEN



New: PEN + Wuxi



OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSRON Compact PL and OSRON Boost HM devices

Description of change: Product identification: Laser marking on device

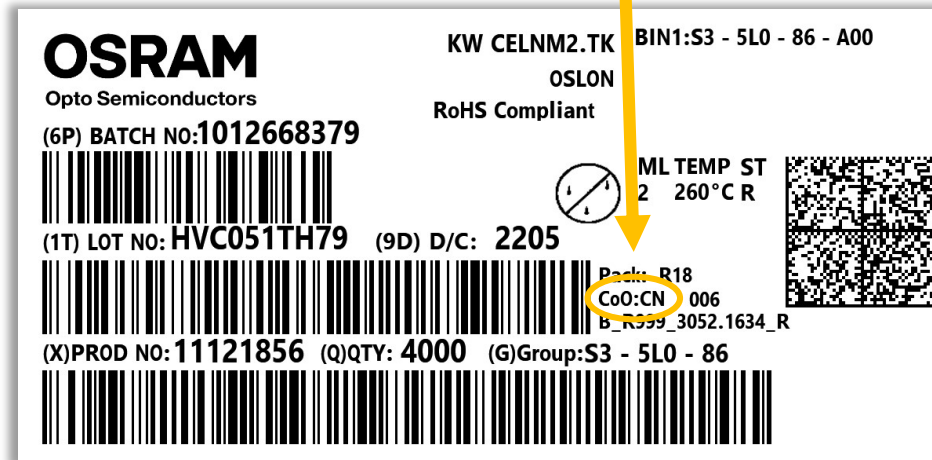
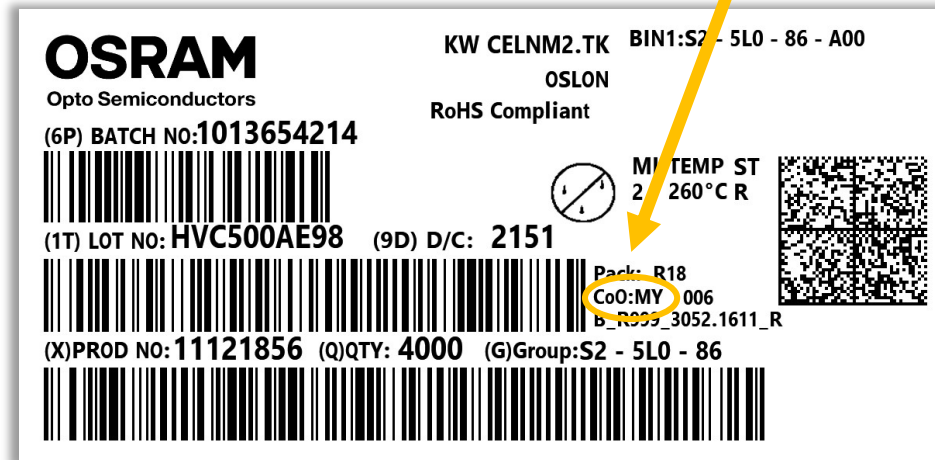
Penang/Malaysia	Wuxi/China
No change	Solid Line in DMC Code on opposite side. No change in datasheet as no specification defined



OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSLON Compact PL and OSLON Boost HM devices

Description of change: Product identification - Barcode Product Label (BPL)

Penang/Malaysia	Wuxi/China
CoO (Country of Origin): no change (shows MY)	CoO (Country of Origin) will show CN



OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSLON Compact PL and OSLON Boost HM devices

List of affected products

OSLON Compact PL	OSLON Boost HM
KW CELNM2.TK	KW2 CFLMM1.TK
KW2 CFLNM2.TK	

OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSLON Compact PL and OSLON Boost HM devices

PCN Samples (planned availability: please refer to p.11 for dates)

OSLON Compact PL	OSLON Boost HM
KW CELNM2.TK	KW2 CFLMM1.TK
KW2 CFLNM2.TK	

Color code:  available  on request

OS-PCN-2022-005-A – Introduction of additional backend production location Wuxi for specific OSRON Compact PL and OSRON Boost HM devices

Qualification Plan

Test item	Test condition	Test duration
Wet High Temperature Operating Life WHTOL1	$T_A = 85^\circ\text{C}$; r.H. = 85%; $I_F = \text{max. acc. to datasheet}$; $T_{\text{on/off}} = 30 \text{ min}$	1000 h
Wet High Temperature Operating Life WHTOL2	$T_A = 85^\circ\text{C}$; r.H. = 85%; $I_F = \text{min. acc. to datasheet}$	1000 h
Powered Temperature Cycle PTC	$T_A = -40/+85^\circ\text{C}$; $I_F = \text{max acc. to derating curve}$	1000 c
Temperature Cycling TC	$T_A = -40/+135^\circ\text{C}$; 15 min each extreme	1000 c
High Temperature Operating Life HTOL1	$T_s = \text{max acc. to datasheet}$; $I_F = \text{corresponding max. acc. to derating curve}$	1000 h
High Temperature Operating Life HTOL2	$I_F = \text{max acc. to datasheet}$; $T_s = \text{corresponding max. acc. to derating curve}$	1000 h
Pulsed Operating Life PLT	$T_A = 25^\circ\text{C}$; $I_{F,\text{PULSE}} = \text{max acc. to datasheet}$; $t_p = 0.1 \text{ ms}$; $D = 3\%$	1000 h

Note:

- I_F - max. acc. to datasheet for KW CELNM2.TK, KW2 CFLMM1.TK: 1500mA, 1650mA
- I_F - min. acc. to datasheet for KW CELNM2.TK, KW2 CFLMM1.TK: 50mA

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Qualification Plan

Test item	Test condition	Test duration
DEW	$T_{A,min} = 10^{\circ}\text{C}$; $T_{A,max} = 80^{\circ}\text{C}$; r.H. = 53-100%	10 c
Solderability SD	$T_A = 235^{\circ}\text{C}$, method 2 (reflow simulation)	1 x
H ₂ S	$T_A = 40^{\circ}\text{C}$; r.H. = 90%; 15 ppm H ₂ S	336 h
Flowing Mixed Gas FMG	$T_A = 25^{\circ}\text{C}$, r.H. = 75%; Test method 4	500 h
Board Flex BF	2 mm	1 x
Electrostatic Discharge HBM	Human Body Model	8000 V
Electrostatic Discharge CDM	Charged Device Model	750 V

Note:

- Planned Devices for Qualification Tests: KW CELNM2.TK, KW2 CFLMM1.TK
- Qualification results expected for: please refer to p.11 for dates

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Time schedule

for PCN material (<u>after</u> implementation of change):		
	KW CELNM2.TK	KW2 CFLNM2.TK, KW2 CFLMM1.TK
Final qualification report	01.06.2022	30.12.2022
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Sensing is life

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