

Light is OSRAM

15.11.2021

Dear Customer,

please find attached our OSRAM OS PCN:

## OS-PCN-2021-024-A Second Supplier for Vacuum-Release Package

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 **21.12.2021**. \*)

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-C", 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. An acceptance or concern response should be submitted to the supplier in a timely fashion, (i.e., customer should not wait to the end of the 90 day review period before responding, if the response is known before that time.)"

# OS-PCN-2021-024-A

## Second Supplier for Vacuum-Release Package

|   |  |   |
|---|--|---|
| <b>Subject of change:</b>   | Second Supplier for Vacuum-Release Package   |   |
| <b>Affected products</b>  | SPL EJ98-40-8-10D  | SPL EE91-45-25-30D  |
|   | SPL EL91-40-8-20D  | SPL EJ91-40-8-30D   |
|   | SPL EL94-40-8-10D  | SPL EE98-45-25-30D  |
|   | SPL EL98-40-8-10D  | SPL EE98-45-25-31D  |
|   | SPL EN91-40-8-20D  | SPL EJ98-40-8-30D   |
|   | SPL EN98-40-8-10D  | SPL EU98-40-20-31D  |
| <b>Reason for change:</b>   | <ul style="list-style-type: none"> <li>• Single-source situation in vacuum-release package supply at OSRAM OS                             <ul style="list-style-type: none"> <li>○ First supplier showed delivery delays during pandemic situation, which lead to risk for delays at OSRAM OS</li> <li>○ First supplier is located in US with <b>high risk of sudden trade restrictions</b> to China</li> </ul> </li> <li>• Increase of lot traceability with unambiguous package design from second supplier</li> </ul> |   |
| <b>Description of change</b>  | Please refer to 2_cip_OS-PCN-2021-024-A  |   |
| <b>Product identification:</b>  | Date code  |   |
| <b>Time schedule for PCN material (after implementation of change):</b> | Production release   | February 2022   |
|   | Samples available  | November 2021   |
|   | Start of delivery  | March 2022*)<br>*) or earlier if released by customer and upon mutual agreement |
| <b>Assessment:</b>  | <ul style="list-style-type: none"> <li>• Second supplier located in EU with no risk for sudden trade restrictions</li> <li>• Stickiness of foil surface may differ slightly between first and second supplier</li> <li>• No changes in placement pattern.</li> <li>• No changes in chip performance or physical data</li> <li>• No changes in storing conditions</li> <li>• No changes in data sheet</li> </ul>  |   |
| <b>Documentation:</b>   | 2_cip_OS-PCN-2021-024-A  |   |

Note:

PCN material: Products with implementation of the changes as described in the PCN.

## Customer approval form

### OS-PCN-2021-024-A

## Second Supplier for Vacuum-Release Package

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

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Please check the appropriate box below:

- |   |   |
|---|---|
| <input type="radio"/> <b>Approval:</b><br>We agree with the proposed change and accept start of the shipment upon availability of PCN material. | <input type="radio"/> <b>Not relevant:</b><br>Change is not relevant for products in use. |
|---|---|
- 
- Change cannot be accepted:**
- We have objections:**

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  - We request following Information:**

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  - We request following Samples:**

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  - Expected approval date:** dd.mm.yyyy

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  - Volume requirements for Pre-PCN material:**

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Sender:

---

Company:

---

Address / Location:

---

Signature:

Date:

Please return this approval form to your Sales partner.

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GmbH

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**OSRAM**  
Opto Semiconductors



# OS-PCN-2021-024-A

## Second Supplier for Vacuum-Release Package

### Customer information package

OS QM CQM | 15.11.2021

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# OS-PCN-2021-024-A

## Overview



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|                          | Page |
|--------------------------|------|
| 1. Reason for change     | 03   |
| 2. Affected products     | 04   |
| 3. Description of change | 05   |
| 4. Time schedule         | 07   |

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### 1. Reason for Change

- Single-source situation in vacuum-release package supply at OSRAM OS
  - First supplier showed delivery delays during pandemic situation, which lead to risk for delays at OSRAM OS
  - First supplier is located in US with **high risk of sudden trade restrictions** to China
- Increase of lot traceability with unambiguous package design from second supplier

### Assessment

- Second supplier located in EU with no risk for sudden trade restrictions
- Stickiness of foil surface may differ slightly between first and second supplier
- No changes in placement pattern.
- No changes in chip performance or physical data
- No changes in storing conditions
- No changes in data sheet

# OS-PCN-2021-024-A

## Second Supplier for Vacuum-Release Package



### 2. Affected Products

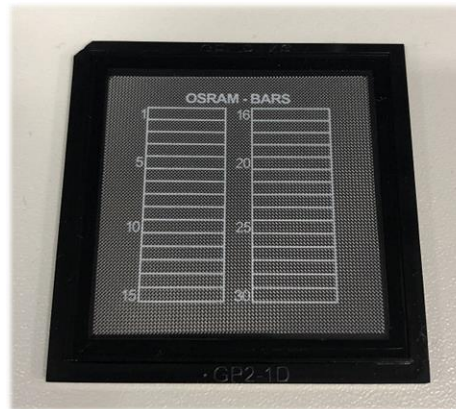
| Product Name      | Product Name       |
|-------------------|--------------------|
| SPL EJ98-40-8-10D | SPL EE91-45-25-30D |
| SPL EL91-40-8-20D | SPL EJ91-40-8-30D  |
| SPL EL94-40-8-10D | SPL EE98-45-25-30D |
| SPL EL98-40-8-10D | SPL EE98-45-25-31D |
| SPL EN91-40-8-20D | SPL EJ98-40-8-30D  |
| SPL EN98-40-8-10D | SPL EU98-40-20-31D |

# OS-PCN-2021-024-A

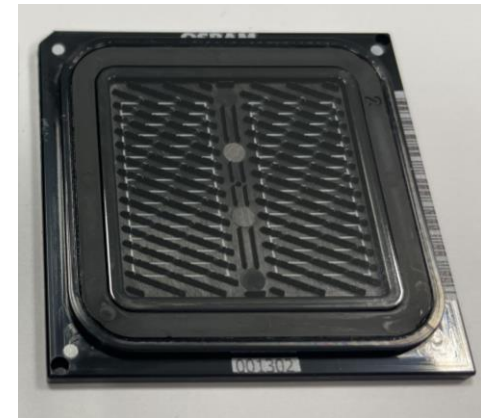
## Second Supplier for Vacuum-Release Package

QUALITY  
FIRST

### 3. Description of Change



First Supplier  
(no changes)



Second Supplier

|                       |                           |  |
|-----------------------|---------------------------|--|
| Material              | Polycarbonat              | Polycarbonat                                 |
| Colour                | black                     | black  |
| Imprint               | Osram-Print (2x15 fields) | Osram-Print (2x15 fields)                    |
| Length x Width        | 50 mm x 50 mm             | 50 mm x 50 mm                                |
| Height                | 3,8 mm                    | 3,8 mm                                       |
| Storage area for bars | ~ 30 mm x 30 mm           | ~ 30 mm x 30 mm                              |
| Identification        | none                      | <b>6-digit individual number and barcode</b> |
| Storage times         | 15 months                 | 15 months                                    |

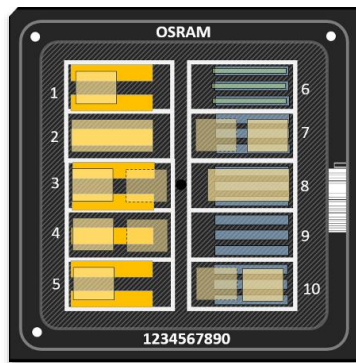


# OS-PCN-2021-024-A

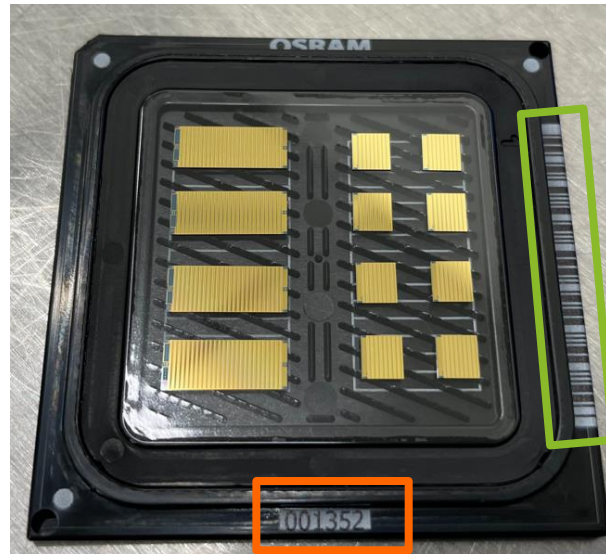
## Second Supplier for Vacuum-Release Package

QUALITY  
FIRST

### 3. Description of Change



- The placement pattern of the bars will not be changed.



- Individual package ID encoded within a bar code to unambiguously identify each package even without the labelled lid.

- The barcode is also printed as plain text for manual traceability.

# OS-PCN-2021-024-A

## Second Supplier for Vacuum-Release Package

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### 4. Time schedule for PCN material

(after implementation of change):

Production release                      February 2022

Samples available                      November 2021

Start of delivery                      March 2022<sup>\*)</sup>

<sup>\*)</sup> or earlier if released by customer and upon mutual agreement

**QUALITY**  
**FIRST**

**Thank you.**

Material (Q-no.) MQD

Q65112A7938 SPL EL91-40-8-20D (907+/-5nm)  
Q65112A7936 SPL EL91-40-8-20D (910+/-5nm)  
Q65112A7939 SPL EN91-40-8-20D (909+/-5nm)  
Q65113A2773 SPL EJ91-40-8-30D (906.0 +/-5nm)  
Q65113A0375 SPL EJ91-40-8-30D (908.0 +/-5nm)  
Q65113A3844 SPL EJ98-40-8-30D (962.0 +/-2NM)  
Q65113A3641 SPL EJ98-40-8-30D (964.0 +/-3NM)  
Q65113A3399 SPL EJ98-40-8-30D (964.5 +/-2nm)  
Q65113A3400 SPL EE91-45-25-30D (904.0 +/-4nm)  
Q65113A4110 SPL EE98-45-25-30D (964.0 +/-2NM)  
Q65113A4109 SPL EE98-45-25-30D (964.0 +/-3NM)  
Q65113A4113 SPL EE98-45-25-30D (972.0 +/-2NM)  
Q65113A4111 SPL EE98-45-25-31D (963.0 +/-2NM)  
Q65113A4112 SPL EE98-45-25-31D (963.0 +/-3NM)  
Q65113A4193 SPL EU98-40-20-31D (963.5 +/-2NM)  
Q65113A4192 SPL EU98-40-20-31D (963.5 +/-3NM)  
Q65112A9957 SPL EJ98-40-8-10D (962,0 +/-2nm)  
Q65112A9837 SPL EJ98-40-8-10D (963,0 +/-2nm)  
Q65112A9278 SPL EJ98-40-8-10D (966,0 +/-2NM)  
Q65113A2529 SPL EJ98-40-8-10D (967.5 +/-2nm)  
Q65112A9062 SPL EJ98-40-8-10D (969,0 +/-3nm)  
Q65112A9187 SPL EJ98-40-8-10D (971,5 +/-2nm)  
Q65112A9188 SPL EL98-40-8-10D (968,0 +/-2nm)  
Q65112A9065 SPL EL98-40-8-10D (969,0 +/-3nm)  
Q65113A3735 SPL EL98-40-8-10D (970.0 +/-2NM)  
Q65112A9189 SPL EL98-40-8-10D (971,0 +/-2nm)  
Q65113A1928 SPL EL98-40-8-10D (972.0 +/-2nm)  
Q65113A2662 SPL EL98-40-8-10D (974.0 +/-2nm)  
Q65113A4202 SPL EN98-40-8-10D (964.0+/-2NM)  
Q65113A0032 SPL EN98-40-8-10D (968.5 +/-2nm)  
Q65112A9792 SPL EN98-40-8-10D (969,0 +/-2nm)  
Q65112A9064 SPL EN98-40-8-10D (969,0 +/-3nm)  
Q65112A9573 SPL EN98-40-8-10D (970,0 +/-2NM)  
Q65113A4203 SPL EN98-40-8-10D (976.0+/-2NM)