

# Product/process change notification

PCN N° 2022-108-A

Dear customer,

Please find attached our Infineon Technologies AG PCN:

## Introduction of an additional wafer production location at Infineon Technologies Austria AG Villach, Austria for CoolMOS™ CFD7 600V products in PG-TO247-3 package

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 **2022-10-05**
- Infineon aligns with the widely recognized JEDEC STANDARD “**JESD46**“, which stipulates: **“Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.”**

Your prompt reply will help Infineon to assure a smooth and well-executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.



On 16 April 2020, Infineon acquired Cypress.  
We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.  
For further details, please visit our website:  
<https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/>

### Infineon Technologies AG

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Management Board Jochen Hanebeck (CEO), Constanze Hufenbecher, Dr. Sven Schneider, Andreas Urschitz, Dr. Rutger Wijburg

Registered office Neubiberg Commercial register Amtsgericht München HRB 126492

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► **Products affected**

Please refer to attached affected product list 1\_cip22108\_a

► **Detailed change information**

**Subject** Introduction of an additional wafer production location at Infineon Technologies Austria AG, Villach, Austria for CoolMOS™ CFD7 600V product in PG-TO247-3 package.

**Reason** Additional capacity to ensure continuity of supply and enable flexible manufacturing.

**Description**

| <u>Old</u>   | <u>New</u>  |
|--|---|
| <ul style="list-style-type: none"> <li>Infineon Technologies Dresden GmbH, Dresden, Germany</li> </ul> | <ul style="list-style-type: none"> <li>Infineon Technologies Dresden GmbH, Dresden, Germany or</li> <li>Infineon Technologies Austria AG, Villach, Austria</li> </ul> |

► **Product identification**

Traceability via Baunumber, Lotnumber; external traceability: Product Barcode Label

► **Impact of change**

**NO** change on electrical and thermal performance  
**NO** impact on the device reliability as proven via product qualification  
**NO** impact on the electrical parameters and device process ability at customer end

► **Attachments**

|              |                           |
|--------------|---------------------------|
| 1_cip22108_a | affected product list     |
| 2_cip22108_a | Qualification test report |

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## ► Time schedule

- |                              |            |
|------------------------------|------------|
| ■ Final qualification report | available  |
| ■ First samples available    | on request |
| ■ Intended start of delivery | 2023-03-31 |

If you have any questions, please do not hesitate to contact your local sales office

## PCN 2022-108-A



Introduction of an additional wafer production location at Infineon Technologies Austria AG Villach, Austria for CoolMOS™ CF7 600V products in PG-TO247-3

Affected products sold to DIGI-KEY (4002348)

| Sales name    | SP number   | OPN                | Package    | Customer part number |
|---------------|-------------|--------------------|------------|----------------------|
| IPW60R018CFD7 | SP001715618 | IPW60R018CFD7XKSA1 | PG-TO247-3 | IPW60R018CFD7XKSA1   |
| IPW60R024CFD7 | SP002621050 | IPW60R024CFD7XKSA1 | PG-TO247-3 | IPW60R024CFD7XKSA1   |
| IPW60R031CFD7 | SP001617992 | IPW60R031CFD7XKSA1 | PG-TO247-3 | IPW60R031CFD7XKSA1   |
| IPW60R037CSFD | SP001927820 | IPW60R037CSFDXKSA1 | PG-TO247-3 | IPW60R037CSFDXKSA1   |
| IPW60R040CFD7 | SP001686068 | IPW60R040CFD7XKSA1 | PG-TO247-3 | IPW60R040CFD7XKSA1   |
| IPW60R055CFD7 | SP001686062 | IPW60R055CFD7XKSA1 | PG-TO247-3 | IPW60R055CFD7XKSA1   |
| IPW60R070CFD7 | SP001617990 | IPW60R070CFD7XKSA1 | PG-TO247-3 | IPW60R070CFD7XKSA1   |
| IPW60R090CFD7 | SP001686056 | IPW60R090CFD7XKSA1 | PG-TO247-3 | IPW60R090CFD7XKSA1   |
| IPW60R105CFD7 | SP001715628 | IPW60R105CFD7XKSA1 | PG-TO247-3 | IPW60R105CFD7XKSA1   |
| IPW60R125CFD7 | SP001686040 | IPW60R125CFD7XKSA1 | PG-TO247-3 | IPW60R125CFD7XKSA1   |
| IPW60R145CFD7 | SP001715654 | IPW60R145CFD7XKSA1 | PG-TO247-3 | IPW60R145CFD7XKSA1   |
| IPW60R170CFD7 | SP001617988 | IPW60R170CFD7XKSA1 | PG-TO247-3 | IPW60R170CFD7XKSA1   |

**RESTRICTED**

# Qualification Test Report

**PCN N° 2022-108-A****16.08.2022**

## Introduction of an additional wafer production location at Infineon Technologies Austria AG Villach, Austria for CoolMOS™ CFD7 600V products in PG-TO247-3 package

**Reason for choosing the following test vehicles:**

IPW60R018CFD7                      CFD7 600V technology in TO247, big chip of family qualification ; THD  
 IPW60R031CFD7                    CFD7 600V technology in TO247, medium chip of family qualification ; THD  
 IPW60R170CFD7                    CFD7 600V technology in TO247, small chip of family qualification ; THD

**Scope of qualification:**                      All CoolMOS™ CFD7 600V products in TO247-3 produced at Infineon Technologies Villach; Austria

**Assessment of Q-Results:**                    pass industrial grade according to JEDEC

| Stress test  | Abbreviation | Test conditions                   | Readout   | IPW60R018CFD7    | IPW60R031CFD7    | IPW60R170CFD7    |
|--|--------------|-----------------------------------|-----------|------------------|------------------|------------------|
|  |              |                                   |           | fails / stressed | fails / stressed | fails / stressed |
| Temperature Cycling<br>JESD22-A104                         | TC*          | - 55°C - +150°C                   | 1000 cyc  | 0 / 77           | 0 / 77           | 0 / 77           |
| Unbiased Temperature/Humidity<br>JESD22-A118               | UHAST*       | Ta = 130°C, RH = 85%              | 96 h      | 0 / 77           | 0 / 77           | 0 / 77           |
| High Humidity High<br>Temp. Reverse Bias<br>JESD22-A101    | H3TRB*       | T = 85°C<br>RH = 85%<br>V = 100 V | 1000 h    | 0 / 77           | 0 / 77           | 0 / 77           |
| High Temperature<br>Reverse Bias<br>JESD22-A108            | HTRB*        | Ta ≥ 150°C<br>V ≥ 80% Vdss max    | 1000 h    | 0 / 77           | 0 / 77           | 0 / 77           |
| High Temperature<br>Gate stress<br>JESD22-A108             | HTGS*        | Ta = 150°C<br>Vg = ±20 V          | 1000 h    | 0 / 77           | 0 / 77           | 0 / 77           |
| Intermitted Operational Life Test<br>MIL-STD 750/Meth.1037 | IOL*         | Delta T = 100 K                   | 15000 cyc | 0 / 77           | 0 / 77           | 0 / 77           |