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Premstaetten, May 9, 2019

**PCN16-2019 (Change to packing in JEDEC trays)
CMV2000 & CMV4000 product family**

Dear Customer,

Please be informed that ams AG is introducing JEDEC trays for the packaging of the CMV image sensor families 2000 & 4000. This change is not affecting any product specifications, only the packing form.

Affected Device / Product Family

Products: CMV2000 & CMV4000

Changes will be

In order to comply with industry standards, ams will introduce JEDEC conform trays for shipments. The comparison between our current version and the JEDEC version is summarized in appendix 1.

Purpose of Change

The purpose of this change is to achieve the following customer advantages:

- temperature resistance allowing baking at industry standard temperatures (up to 150 °C)
- meeting industry and international standards
- establish standard for safe handling, transport and storage
- more sturdy packaging, better product protection
- fixed outline dimensions for all products
- stackability within the same device
- automated pick & place feasible
- standard handling procedure for subcontractors

Bankverbindungen/
Bank accounts
UniCredit Bank Austria AG, Graz

IBAN EUR AT28 1200 0763 1316 1100
BIC BKAUATWW
IBAN USD AT60 1200 0763 1316 1106

BIC BKAUATWW
Firmenbuchgericht Graz
Firmenbuch Nr. FN 34109k

DVR 0420352
UID/VAT ATU 28560205



Affected Products:

All variants of CMV2000 & CMV4000 are affected. The complete part number list is the following:

Material ID	Product Description
301770004	CMV2000-2E12M1LP QA
301770007	CMV2000-2E12M1PP QA
301780005	CMV2000-2E5C1LP QA
301780007	CMV2000-2E5C1PP QA
301800004	CMV2000-2E5M1CA QA
301800005	CMV2000-2E5M1CP QA
301800006	CMV2000-2E5M1LP QA
301800009	CMV2000-2E5M1PP QA
301860004	CMV2000-3E5C1CA QA
301860007	CMV2000-3E5C1PP QA
301870004	CMV2000-3E5M1CA QA
301870006	CMV2000-3E5M1LP QA
301870007	CMV2000-3E5M1PA QA
301870009	CMV2000-3E5M1PP QA
301900004	CMV2000-3E12M1CA QA
301900005	CMV2000-3E12M1LP QA
301900006	CMV2000-3E12M1PP QA
301810003	CMV4000-2E12C1PP QA
301820003	CMV4000-2E12M1LP QA
301820005	CMV4000-2E12M1PP QA
301830003	CMV4000-2E5C1LP QA
301830004	CMV4000-2E5C1PA QA
301830006	CMV4000-2E5C1PP QA
301850003	CMV4000-2E5M1LP QA
301850004	CMV4000-2E5M1PA QA
301850006	CMV4000-2E5M1PP QA
301910004	CMV4000-3E5C1LP QA
301910006	CMV4000-3E5C1PP QA
301910007	CMV4000-3E5C1CA QA
301920004	CMV4000-3E5M0PN QA
301930004	CMV4000-3E5M1LP QA
301930005	CMV4000-3E5M1PA QA
301930006	CMV4000-3E5M1PN QA
301930007	CMV4000-3E5M1PP QA
301930008	CMV4000-3E5M1CA QA
301950004	CMV4000-3E12M1LP QA
301950006	CMV4000-3E12M1PP QA

**Date of Implementation**

Target Q3 2019

Impact on Product

No impact on product is anticipated. There will be no changes in terms of device functionality, form or fit apart from the different packing.

Impact on Packing & Shipment

The tray & outside packing will change. A double-waved carton box will be used to ensure more stability during shipment. Moreover, the JEDEC tray has an improved maximum baking temperature of 150 degrees Celsius.

Impact on Delivery Schedule

No impact on delivery schedule.

Risk Assessment

The risk is considered negligible based on the fact that JEDEC is an international standard and all internal instructions are updated accordingly.

We ask for your kind cooperation in supporting this change.

Please be advised that unless we receive your written refusal concerning this change notification within 30 days, the change notification shall be deemed accepted.

If you do have further questions, please do not hesitate to contact our customer support team at any time.

Best regards,

A handwritten signature in black ink, appearing to read 'Peter Crabbe'.

Peter Crabbe

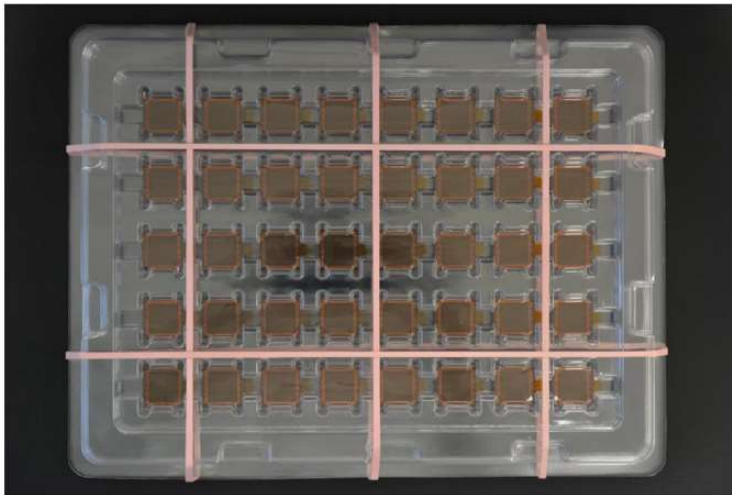
ams AG

Director Operations CIS

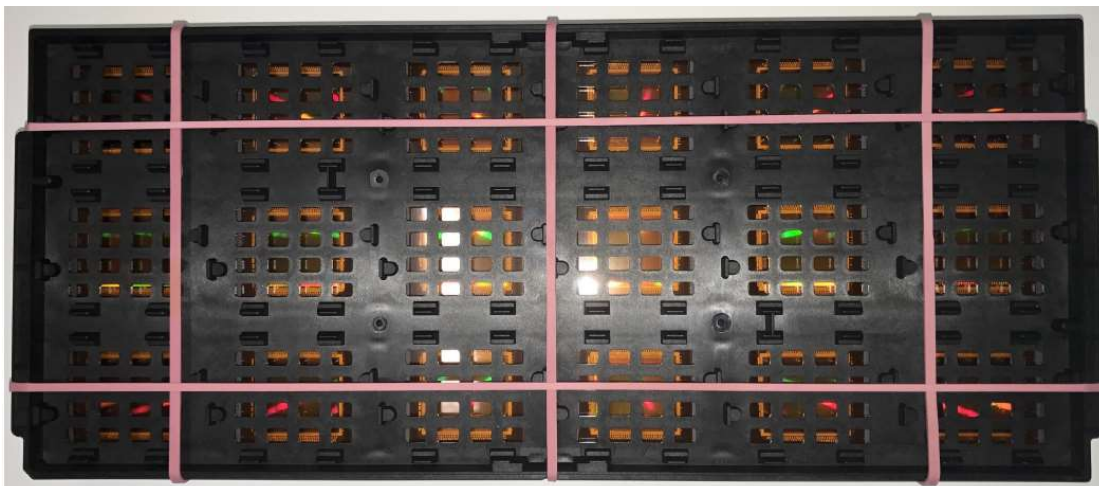
Appendix 1

Comparison

Current Tray



JEDEC Tray



Picture shows CMV12000 as example (tray outside dimensions are identical)