

Product / Process Change Notification



N° 2008-182-A

PL=52

Implementation of halogen-free¹⁾ mold compound for dedicated CoolMOS[™] and OptiMOS[®] products assembled in lead-free packages TO220, TO251, TO252 and TO262

Attached you find the process change notification PCN-N° 2008-182-A.
Please forward this information to all affected customers as soon as possible.

If we receive no response to the contrary until 30th January 2009 at the latest we assume,
that your customers have been informed and are in agreement with our outlined intentions.

JEDEC STANDARD "JESD46-C" stipulates: "Lack of acknowledgement of the PCN
within 30 days constitutes acceptance of the change."

For PCN sample ordering, please use the Infineon Sample Request (ISaR) tool, and include the PCN number as
reference. Please note that the sample availability date indicated in the PCN is only valid for lead products.

Complete customer information, e.g.: product list, Customer Info Package is available on the Infineon intranet at:

http://goto.infineon.com/ci_docs/

Please address any questions on this issue to PCN author:

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Dear Sales responsible,

Kindly contact PL52 Samples, if sales codes your customer wants to order are not listed in S4I.

Best Regards
Andrea Fichtner

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Dear Customer,

Please find attached our INFINEON Technologies PCN:

Implementation of halogen-free¹⁾ mold compound for dedicated CoolMOS™ and OptiMOS® products assembled in lead-free packages TO220, TO251, TO252 and TO262

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 **30th January 2009**.
- Infineon aligns with the widely-recognized JEDEC STANDARD "JESD46-C", which stipulates: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change."

Your prompt reply will help Infineon Technologies 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.

Disclaimer:

**If we do not receive any response by the date in the PCN below we consider this as the acceptance of the PCN. After the last order date as stated herein, purchase orders related to the unchanged product(s) cannot be accepted.
In case the customer rejects this PCN this PCN shall be considered a product discontinuation notice (PD).**

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SUBJECT OF CHANGE: Implementation of halogen-free¹⁾ mold compound:

1) Note

Infineon products defined as halogen-free according to IEC 61249-2-21 meet the following requirements:

- 900 ppm maximum Chlorine
- 900 ppm maximum Bromine
- 1500 ppm maximum sum of Chlorine and Bromine

All homogeneous materials in the final product defined as halogen-free according to IEC 61249-2-21 meet these voluntary substance thresholds defined by the International Electrotechnical Commission (IEC).

PRODUCTS AFFECTED: Products assembled at site Infineon Technologies (Malaysia) Sdn. Bhd. in lead-free packages PG-TO220, PG-TO251, PG-TO252 and PG-TO262 as listed per sales code in attachment 1_cip08182_a.

REASON OF CHANGE: To adequately react on the increasing customer requests for eco-friendly products.

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DESCRIPTION OF CHANGE:

OLD

NEW

Products assembled in package
PG-TO251/TO252

- **Mold compound**

MP 8000 CH4

CEL 800 JM1

Products assembled in package
PG-TO220/TO262

- **Mold compound**

MP 195H

EME E500 HA

Exception:

Products with sales code IPP60RxxxCP
and IPI60RxxxCP in PG-TO220/TO262

- **Die Attach Solder**
- **Mold Compound**
- **Leadframe Plating**

Pb2Sn2.5Ag

KMC 2110-7

Full NiP

Sn25Ag10Sb

EME E500 HA

Selective NiP

All products

- **Marking**
- **Barcode Label (BPL)**

G in front of the date code

EAN Code39

H in front of the date code

Separated EAN Code128

Change in BPL design

**Additional information such as
halogen-free¹⁾ logo added**

► Note:

For a detailed matrix, kindly refer to attached affected product list 1_cip08182_a.

Detailed description regarding marking and barcode label change to be found in attached document 3_cip08182_a

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PRODUCT IDENTIFICATION:

External traceability

On product level: Marking "H" in front of date code

On packing level: Change in label design including halogen-free logo



printed on barcode label

► **Note:**

For a detailed illustration, kindly refer to attachment 3_cip08182_a.

Internal traceability

Ensured via baunumber, lotnumber and date code.

TIME SCHEDULE:

- Final qualification plan: Attached. Kindly refer to attachment 2_cip08182_a.
- Final qualification report: February 2009
- First samples available: Lead-types available.
All other types on request with a leadtime of 6 weeks from customer sample order till sample delivery.
- Start of delivery: From March 2009 onwards.
Earlier deliveries on special customer agreement possible.
- Last order date of unchanged product: 30.07.2009
- Last delivery date of unchanged product: 30.12.2009

ASSESSMENT:

- Halogen-free according to IEC 61249-2-21
- No change in electrical performance as defined in already applied datasheets
- No change in quality and reliability

DOCUMENTATION:

- | | |
|------------------|--|
| 1_cip08182_a | List of affected products including changes |
| 2_cip08182_a | Final Qualification Plan with interim results
Will be substituted by the Final Qualification Report once available. |
| 3_cip08182_a | Customer Information Package (CIP):
Illustration of change in marking & labelling |
| 4_cip08182_a.zip | Material Content Data Sheets |