



Certificate

Product Safety

- with the right to S marking

Reference No / Referensnr. 202172

Optoinsulator for bridging of reinforced insulation

Type designation /
Typbeteckning

HMA121#, HMA124#, HMA181#, HMA2701#, HMAA2705#, HMHAA280#,
HMHA2801#, HMHA281#

Manufacturer /
Certifikatsinnehavare

FAIRCHILD SEMICONDUCTOR
3001 Orchard Parkway
San Jose, CA 95134
USA

The product complies with
the standard(s) /
Produkt uppfyller standard

EN 60950:2000
IEC 60950:1999
IEC 60065:1998
EN 60065:1998 Group/National differences for CENELEC

Date of expiry /
Giltigt längst t o m

1 July 2006

Terms in SEMKO's Agreement on certification. Additional information in Appendix.

Certification Body /
Certifieringsorgan

SEMKO AB, Product Certification

Place /
Ort

Kista - Stockholm

Signed /
Underskrift


Fredrik Wennersten

Date /
Datum

2 October 2002



SEMKO

ITS Intertek Testing Services
ETL SEMKO



Appendix

Reference No / Referensnr. 202172

Technical data / Tekniska data

Type designation / Typbeteckning HMA121#, HMA124#, HMA181#, HMA2701#, HMAA2705#,
HMHAA280#, HMHA2801#, HMHA281#

Alternative designation:

HM.....#: The suffix # May be nothing or any letter representing CTR (Current Transfer Ratio)

Manufacturing site(s) /
Tillverkningsställe(n) LITE-ON ELECTRONICS (THAILAND) CO., LTD.
38/4 Moo 1, Ransit-Ongkarak Road
Bungyeetoh, Tanyaburi
Pathumthani 12130
THAILAND

The following tests have been performed with positive result:

General

- Creepage distance between input and output : >5 mm
- Distance through insulation : ≥0.5mm
- Humidity test: 48h. in 93% relative humidity. Electric strength test 3000 V/1 min.
- Internal creepage distance not measured, tests according to EN 60950 2.9.6 have been performed with positive result.

Special tests according to EN 60950

- Thermal cycling test. 10 cycles. Each cycle : 68 h in 100°C, 1 h in 25°C, 2 h in 0°C and 1 h in 25°C. After the cycling test a humidity test for 48 h in 93% relative humidity.
Electric strength test between input and output 4800 V/1 minute.

After judgement from case to case, the opto-insulator can bridge basic, supplementary, double or reinforced insulation, provided that the ratings in data sheet are not exceeded in normal operation or under fault conditions in the appliance.

This certificate replaces previously issued ref. No. 0225009/01-08 dated 18 July 2002 for HMA121, HMA124, HMA181, HMA2701, HMAA2705, HMHAA280, HMHA2801, HMHA281. A new certificate has been issued on account of changed type designation (suffix # added).

Replaces previously issued Appendix dated 2 October 2002.
A new Appendix has been issued on account of changed manufacturing site.

Kista/Stockholm
15 January 2004

Fredrik Wennersten

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