

Optocoupler



CERTIFICATE FI/40976/M1

Our Ref. HEL-CERT210300197-02

Product Optocoupler

Type LH1546AEF, VOM1271, VO1400AEFTR, VOM15463A
SFH690ABT, SFH690AT, SFH690BT, SFH690CT, SFH691AT, SFH692AT, SFH690DT,
VOM618A
SFH1690AT, SFH1690BT, SFH1690CT, SFH1690ABT

Trademark

Certificate Holder Vishay Semiconductor GmbH,
Theresienstrasse 2, D-74072
HEILBRONN, GERMANY

Technical Information Basic/Supplementary/Reinforced insulation
Environmental temperature 100 °C / 110 °C (See appendix).

Other Information See page 2

The product is certified according to the following standard(s) EN IEC 62368-1:2020+A11:2020

Validity This certificate is valid until 2026-03-11 provided that the Conditions for FI certification are met. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for FI certification are met

Date of issue 2022-12-27

SGS Fimko Oy

Signature
Jonas Leinonen
Certification Manager

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Y-tunnus 0978538-5

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Manufacturer Vishay Semiconductor GmbH,
Theresienstrasse 2, D-74072
HEILBRONN, GERMANY

Manufacturing sites Vishay Semiconductor Malaysia Sdn.Bhd.
No.1710-1, Kawasan Perindustrian, Krubong
75250 MELAKA, MALAYSIA

Additional information Models:

- 1) LH1546AEF, VO1400EFTR, VOM15463A
- 2) VOM1271, SFH690ABT, SFH690AT, SFH690BT, SFH690CT, SFH691AT, SFH692AT, SFH690DT
- 3) SFH1690AT, SFH1690BT, SFH1690CT, SFH1690ABT, VOM618A

Operating temperature: 1) 85 °C, 2) 100 °C 3) 110 °C

Package: SOP-4

Minimum external clearance and creepage distance: 5,9 mm except models SFH1690AT, SFH1690BT, SFH1690CT, SFH1690ABT 5,8 mm

According to standard EN IEC 62368-1:2020/A11:2020 optocoupler used as safeguard shall comply with the requirements of clause 5.4 or Annex G.12 for optocouplers which requires component to fulfill standard IEC 60747-5-5 2007. In addition, the type testing voltage $V_{in1,a}$ and routine testing voltage $V_{in1,b}$ shall be at least equal to the appropriate test voltage in EN IEC 62368-1:2020/A11:2020 clauses 5.4.9.1 and 5.4.9.2.

Models have been tested and certified by VDE certificate Ref. No. VDE 128218 dated 2022-11-15 according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for $V_{in1,a}$ and $V_{in1,b}$ are 6 kVpeak.

For ITAV applications, based on test voltages, optocouplers can be used in implementation where required withstand voltage is max. 4,0 kVp/(AC mains max. 250V/OVC III). Complying other insulation requirements construction of the optocouplers, final assembly as well as environmental conditions shall be considered.

This certificate replaces previous one FI/40976 dated 2021-03-11 due to addition of new inner mold compound, outer mold compound and coupling material.

As shown in the Test Report(s) No(s): 300196-10, 300196-10 Amendment-1

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