

Vishay Semiconductors

Optocoupler



CERTIFICATE FI/40971/M1

HEL-CERT210300192-02

Product

Optocoupler

Type

ILQ1, ILQ2, ILQ3, ILQ5, ILQ30, ILQ31, ILQ32, ILQ55, ILQ66-., ILQ74, ILQ615-. ILQ620.., ILQ621..,TCET4100, TCET4100G, TCET4600, TCET4600G, ILCT6, ILD1, ILD2, ILD3, ILD5, ILD30, ILD31, ILD32, ILD55, ILD66-., ILD74, ILD250, ILD251, ILD252, ILD255, ILD610-., ILD615-., ILD620.., ILD621.., ILD755-., ILD766-., MCT6, TCET2100, TCET2100G, TCET2200, TCET2200G, TCET2600, TCET2600G

ILD1615-1, ILD1615-2, ILD1615-3, ILD1615-4, ILQ1615-1, ILQ1615-2, ILQ1615-3,

ILQ1615-4

Trademark



Certificate Holder

Vishay Semiconductor GmbH

Theresienstrasse 2, D-74072, Heilbronn, Germany

Technical information

Basic/Supplementary/Reinforced insulation Environmental temperature 100 °C / 110 °C.

Other information

See pages 2-3

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

2023-01-04

SGS Fimko Ltd

Signature

Certification Manager

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SGS Fimko Ltd

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Bušiness ID 0978538-5

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Revision: 11-Jan-2023 Document Number: 80340 For technical questions, contact: optocoupleranswers@vishay.com



Vishay Semiconductors



Page 2 of 3 to Certificate:

FI/40971/M1

Manufacturer

Vishay Semiconductor GmbH Theresienstrasse 2, D-74072, Heilbronn, Germany

Manufacturing site

Vishay Semiconductor Malaysia Sdn.Bhd. No.1710-1, Kawasan Perindustrian Krubong, 75250, Mukim Krubung, Melaka, Malaysia

Additional information

Models:

1) ILQ1, ILQ2, ILQ3, ILQ5, ILQ30, ILQ31, ILQ32, ILQ55, ILQ66-., ILQ74, ILQ615-., ILQ620.., ILQ621.., TCET4100, TCET4100G, TCET4600, TCET4600G, ILC76, ILD1, ILD2, ILD3, ILD5, ILD30, ILD31, ILD32, ILD55, ILD66-., ILD74, ILD250, ILD251, ILD252, ILD255, ILD610-., ILD615-., ILD620.., ILD621.., ILD755-., ILD766-., MCT6, TCET2100, TCET2100G, TCET2200, TCET2200G, TCET2600G

The symbol "." or ".." in model numbering can be as follows:

- "." can be 1, 2, 3 or 4 for types ILQ66-., ILQ615-., ILD66-. ILD610-. and ILD615-.
- ".." can be blank or GB for types ILQ620.., ILQ621.., ILD620.. and ILD621..
- "." can be 1or 2 for types ILD755-, and ILD766-.

Package:

- DIP-8, SMD-8: ILDxxxx, MCT6. TCET2xxx
- DIL-16, SMD-16: ILQxxxx, TCET4xxx

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

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 Vini,a and routine testing voltage Vini,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 91888, dated 2022-11-04, according to the standard EN 60747-5-5:2020. The used test voltages for Vini,a and Vini,b are 10 kVpeak.

Page 2 of 3

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Page 3 of 3 to Certificate:

FI/40971/M1

Minimum external clearances and creepage distances:

1) 7,7 mm

2) 7,8 mm

For ITAV aplications, 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). Compliance to other insulation requirements, construction of the optocouplers (enclosure option), as well as environmental conditions shall be considered in final assembly.

This certificate replaces previous certificate FI/40971, dated 2021-03-11, due to addition of new inner mold, outer mold compound and coupling material.

As shown in the Test Report(s) No(s):

300196-5, 300196-5 Amendment-1



Page 3 of 3

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