

Optocoupler

CERTIFICATE FI 29070



Our Ref. 278618-8

Product Optocoupler

Types ILQ1, ILQ2, ILQ3, ILQ5, ILQ30, ILQ31, ILQ32, ILQ55
 ILQ66-ILQ74, ILQ615-., ILQ620-., ILQ621-..
 TCET4100, TCET4100G, TCET4600, TCET4600G

Trade mark

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

Technical information Operating temperature 100°C

Other information Multi-channel phototransistor optocouplers. Dual/Quad Channel.
DIP-8 / DIP-16 and SMD-8 / SMD-16 package. See the Appendix.

The product is certified according to the following standard(s) EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
EN 60065:2014

Validity This certificate is valid until 02 April 2020 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. 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 02 April 2015

Signature
Matti Huttunen
Certification Engineer



This certificate has 1 appendix



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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Appendix to Certificate: 29070

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

Additional information The symbol "." or ".." in model numbering can be as follows:
"." can be 1, 2, 3 or 4 for types ILQ66- and ILQ615-
".." can be blank or GB for types ILQ620.. and ILQ621..

The product has been tested with relevant parts of standards
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 and
EN 60065:2014

The following tests have been performed with positive result:

External creepage distance between input and output is more than 5,0 mm; measured a minimum of 8,0 mm.
External clearance between input and output is more than 4,0 mm; measured a minimum of 7,7 mm.
Distance through insulation between input and output is more than 0,4 mm, measured a minimum of 0,5 mm.

Thermal cycling, humidity conditioning and electric strength tests according to EN 60950-1 clauses 2.10.9 and 2.10.11 have been carried out for three samples:

- 10 cycles, each cycle: 68h in 110°C, 1h in 25°C, 2h in 0°C and 1h in 25°C.
- After thermal cycling test 1 sample is subjected to electric strength test at 4800 VAC / 1 min between the input and the output circuits.
- The remaining 2 samples are subjected to a humidity test for 48h. After the humidity test the 2 samples are subjected to electric strength test at 4800 VAC / 1 min between the input and the output circuits.

No additional tests were required by EN 60065:2014 due to similar requirements of the standard EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013.

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

As shown in the Test Report(s) No(s): 278618-8

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MBR