



CERTIFICATE FI 27467 A2

Our Ref. 266159

Product

Optocoupler

Type

4N5X., EL060L., EL045X., EL0452., EL0501., EL050L., EL354L., EL357L., EL355L., EL101X., EL0701., EL0700., EL061A., EL0601., CNY17F1-X., EL610., EL852., ELD205., EL111X., EL161X., ELD206., EL151X., EL851., ELD211., CNY171-X., ELM302X., EL0551., EL053X., EL063X., EL0661., EL073X., ELM305X., ELM307X., ELM303X., ELM301X., ELM304X., ELM306X., ELM308X., EL451., EL452., EL061N., EL053L., EL0500., EL0600.,

EL0611.

Trade mark

EVERLIGHT

Certificate Holder/ Manufacturer

Everlight Electronics Co., Ltd.

No. 6-8, Zhonghua Rd., Shulin Dist., NEW TAIPEI CITY 23860,

TAIWAN

Technical information

250Vrms

Other information

In detail, see appendix 1 and 2

The symbol "." in type numbering can be blank, A-Z or numbers and denote different pin

shape. The symbol "X" in type numbering denotes part numbers, see appendix 2.

The product is certified

according to the

following standard(s)

EN 60065:2002 + A1:2006 + A11:2008 + A2:2010 + A12:2011

EN 60335-1:2012

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

EN 61347-1:2008 + A1:2011

Validity

This certificate is valid until 01 January 2016 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the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

10 April 2014

SGS Fimko Ltd

Signature

Matti Huttunan

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.



Appendix to Certificate: 27467 A2

Manufacturing sites

Everlight Electronic (China) Co., Ltd.
No. 2135 Zhong Shan North Road, Wujiang Economy Development
Zone (Yun Xi Area), Songling Town, Wujiang City, 215200 JIANGSU,
CHINA

Additional information

The product has certificate P11214766/A4 issued by Nemko AS in accordance with the Nordic Certification Service system.

Models: 4N5X., EL852., EL851.

Minimum external creepage distance is measured 7.7mm

Minimum internal creepage distance is measured 5.5mm

Minimum distance through insulation is measured 0.5mm

Tested for reinforced insulation

Maximum operating temperature 100°C

Models: ELD206., ELD211., EL061A., EL061N., EL050L., EL060L., EL0551., EL0533., EL063X., EL0661., EL073X., EL053L., EL0500., EL0501., EL0701., EL0452., EL0453., EL0600., EL0601., EL0611., EL0700., ELD205.

Minimum external creepage distance is measured 4.4mm
Minimum internal creepage distance is measured 3.5mm
Minimum distance through insulation is measured 0.4mm
Tested for basic and supplementary insulation

Models: CNY-171-X., CNY17F1-X., EL610.

Minimum external creepage distance is measured 7.7mm

Minimum internal creepage distance is measured 6.0mm

Minimum distance through insulation is measured 0.5mm

Tested for reinforced insulation

Maximum operating temperature 110°C

Maximum operating temperature 100°C

Models: EL111X., EL161X., EL151X., EL101X., EL357L., EL355L., EL354L.

Minimum external creepage distance is measured 8.1mm

Minimum internal creepage distance is measured 5.2mm

Minimum distance through insulation is measured 0.4mm

Tested for reinforced insulation

Maximum operating temperature 110°C

Models: ELM304X., ELM306X., ELM307X., ELM303X., ELM302X., ELM305X., ELM301X., ELM308X., EL451., EL452., Minimum external creepage distance is measured 5.0mm Minimum internal creepage distance is measured 4.0mm Minimum distance through insulation is measured 0.4mm Tested for reinforced insulation Maximum operating temperature 110°C

Thermal cycling test. 10 cycles. Each cycle: 68 h in 100°C or 110°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.



Appendix 2 to Certificate: 27467 A2

The symbol "X" in type denotes X = Part. No. as follows:
0, 1, 2, 3, 4, 5, 6, 7, 8, 9 (4N5X., EL1111X., EL161X., EL151X., EL101X.)
1, 2, 3, 4 (CNY171-X., CNY17F1-X)
0, 1, 2, 3, 4 (ELM304X., ELM306X., ELM307X., ELM303X., ELM302X., ELM305X., ELM301X., ELM308X.)
0, 1, L, A, N (EL063X.)
0, 1 (EL073X.)
3, 4 (EL045X.)
0, 1, 3 (EL053X)

The products fulfil following IEC standards: IEC 60065:2001 (Ed 7) + A1:2005 + A2:2010 IEC 60950-1:2005 (Ed 2) + A1:2009 + A2:2013 IEC 60335-1 (Ed 5) IEC 61347-1 (Ed 2) + A1:2010

This certificate replaces previous certificate FI 27467 A1 dated 30 November 2012 due to updated standard and technical modifications. The type EL101X is tested for 5000m. Electric strength test; 4800Vac/1min for reinforced insulation and 2400V ac/1min for basic and supplementary insulation.

Our ref. no.

266159-4