

Our Ref. HEL-CERT200900418-01

Product

Optocoupler

Type

EL357., EL354., EL355., EL356., EL359., EL121., EL124., EL2701., EL2705., EL357N., EL356N., EL121N., EL124N., EL2701N., EL354N., EL2705N., EL3H7., EL281., EL2801., EL3H4., EL280., ELD207., ELD208., ELD213., ELD217., EL060L., EL0452., EL0501., EL050L., EL0701., EL0700., EL061A., EL0601., ELD205., ELD206., ELD211., ELM302X., EL0551., EL063X., ELM661., ELM305X., ELM307X., ELM303X., ELM301X., ELM304X., ELM306X., ELM308X., EL451., EL452., EL061N., EL0500., EL0600., EL0611., ELM452L., ELM453L., ELM600L., ELM601L., ELM611L., ELD3H5., ELD3H6., ELD3H7., ELD3H4., ELM452., ELM453., ELM600., ELM601., ELM611., ELQ3H4., ELQ3H5., ELQ3H7., ELM314., ELM454., EL3H71., EL205., EL206., EL207., EL208., EL211., EL212., EL213., EL215., EL216., EL217., EL0730., EL0731., EL0454., EL0530., EL0531., EL0453., EL0531., EL0631., EL081L., EL3H7L., EL351., EL352., EL3571N., EL357NL., EX357NH., EX3H7H., ELM80L., ELM81L., EL083L., EL086L., EX3H7U., EX3H4U., ELS680., EX354NU., EX357NU., ELM456., ELM61L., ELM680.. ELM511.. ELM453H.. ELM611H.

Trademark

EVERLIGHT

Certificate Holder

Everlight Electronics Co., Ltd.

6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

Technical information

250 V rms

The product is certified according to the following standard(s)

EN 60065:2014 + A11:2017

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

EN 61347-1:2015

EN 62368-1:2014 + A11:2017

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019

Validity

This certificate is valid until 2025-09-18 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

2020-09-18

SGS Fimko Ltd

Signature

Matte Hettunen

Matti Huttunen

Certification Engineer

Page 1 of 4

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SGS Fimko Ltd

Takomotie 8, FI-00380 Helsinki, Finland t. +358 9 696 361 www.sgs.fi

Business ID 0978538-5



Page 2 of 4 to Certificate:

FI/40815

Manufacturer

Manufacturing site

Everlight Electronics Co., Ltd. 6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

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

3. Everlight Electronics Co., Ltd. Tongluo Plan No. 26, Chung Hsin Road, Chung Hsin Industrial Park, Miaoli County, 36647, Taiwan

The product has certificate P15219385/A8 issued by Nemko AS in accordance with the Nordic Certification Service system.

ELS680.

Minimum external creepage distance is measured to 8.4 mm, minimum internal creepage distance is measured to 5.56 mm and minimum distance through insulation is measured to 0.4 mm.

Maximum operating temperature: 100 °C

EX357NH., EX3H7H., EX3H7U., EX3H4U., EX354NU., EX357NU., ELM453H., ELM611H.

Minimum external creepage distance is measured to 5.0 mm, minimum internal creepage distance is measured to 4.0 mm and minimum distance through insulation is measured to 0.4 mm.

Maximum operating temperature: 125 °C

EL121., EL121N., EL124., EL124N., EL2701., EL2701N., EL2705., EL2705N., EL280., EL281., EL2801., EL351., EL352., EL354., EL354N., EL355., EL356., EL356N., EL357., EL357N., EL3571N., EL357NL., EL359., EL451., EL452., EL3H4., EL3H7., EL3H7L., EL3H71., EL3H71., ELD3H5., ELD3H6., ELD3H7., ELM301X., ELM302X., ELM305X., ELM307X., ELM303X., ELM304X., ELM306X., ELM308X., ELQ3H4., ELQ3H5., ELQ3H7., ELM314.

Minimum external creepage distance is measured to 5.0 mm, minimum internal creepage distance is measured to 4.0 mm and minimum distance through insulation is measured to 0.4 mm. Maximum operating temperature: 110 °C

Additional information

Page 2 of 4

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SGS Fimko Ltd



Page 3 of 4 to Certificate:

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Additional information

ELM452., ELM452L., ELM453., ELM453L., ELM454., ELM456., ELM511., ELM600., ELM600L., ELM601., ELM601L., ELM611., ELM611., ELM611., ELM611., ELM680., ELM80L., ELM81L. Minimum external creepage distance is measured to 5.0 mm, minimum internal creepage distance is measured to 4.0 mm and minimum distance through insulation is measured to 0.4 mm. Maximum operating temperature: 100 °C

EL205., EL206., EL207., EL208., EL211., EL212., EL213., EL215., EL216., EL217., ELD207., ELD208., ELD213., ELD217., ELD205., ELD206., ELD211.

Minimum external creepage distance is measured to 4.4 mm, minimum internal creepage distance is measured to 3.5 mm and minimum distance through insulation is measured to 0.4 mm. Maximum operating temperature: 110 °C

EL0452., EL0453., EL0454., EL0500., EL050L., EL0501., EL0530., EL0531., EL0533., EL0531., EL0633., EL0651., EL0600., EL060L., EL0601., EL061A., EL061N., EL0611., EL063X., EL0661., EL0700., EL0701., EL0730., EL0731., EL053L., EL080L., EL081L., EL083L., EL086L. Minimum external creepage distance is measured to 4.4 mm, minimum internal creepage distance is measured to 3.5 mm and minimum distance through insulation is measured to 0.4 mm. Maximum operating temperature: 100 °C

Tested for reinforced insulation. Tested for 5000 m. The symbol "X" in type denotes X = Part no. (0,1,2,3,4). The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

Thermal cycling test, 10 cycles. Each cycle: 68h in 85 or 100 or 110 or 125 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800 Vac/1 minute.

Page 3 of 4

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SGS Fimko Ltd



Page 4 of 4 to Certificate:

FI/40815

Additional information

The product is certified according to the following standards:

IEC 60065:2014

IEC 60950-1:2005 + A1:2009 + A2:2013

IEC 61347-1:2015 IEC 62368-1:2014

IEC 60335-1:2010 + A1:2013

This certificate replaces previous certificate FI 29132 A3 dated 7 May 2018. Renewal of the certificate due standard update, addition of new factory, addition of new models, change of operation temperature and addition of new materials.

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

397064



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SGS Fimko Ltd

Takomotie 8, FI-00380 Helsinki, Finland t. +358 9 696 361 www.sgs.fi

Business ID 0978538-5



Our Ref. HEL-CERT200900421-01

Product Optocoupler

Type EL0200., EL0201., EL0202., EL0210., EL0211., EL0212., EL2514., ELL300.,

ELM440A., ELM460A., ELM60U., ELM61U., ELM640A., ELM660A., ELM840A., ELM860A., ELS050L., ELS051L., ELS052L., ELS060L., ELS061L., ELS062L., ELS270., ELS271., ELS272., ELS500., ELS501., ELS511., ELS600., ELS601., ELS60U., ELS611., ELS61U., ELS62U., ELM406A., ELS3120., ELS3140.,

ELS3150., ELS3180., ELS3184.

Trademark EVERLIGHT

Certificate Holder Everlight Electronics Co., Ltd.

6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

Technical information

standard(s)

250 V rms

The product is certified according

EN 60065:2014 + A11:2017

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

to the following EN 61347-1:2015

EN 62368-1:2014 + A11:2017

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019

Validity This certificate is valid until 2025-09-18 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.

Matte Hettunen

Date of issue 2020-09-18

SGS Fimko Ltd

Signature

Matti Huttunen

Certification Engineer

Page 1 of 3

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SGS Fimko Ltd



Page 2 of 3 to Certificate:

FI/40818

Manufacturer

Manufacturing site

Additional information

Everlight Electronics Co., Ltd. 6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

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

3. Everlight Electronics Co., Ltd. Tongluo Plan No. 26, Chung Hsin Road, Chung Hsin Industrial Park, Miaoli County, 36647, Taiwan

The product has certificate P15219385/A8 issued by Nemko AS in accordance with the Nordic Certification Service system.

ELS3120., ELS3140., ELS3150., ELS3180., ELS3184. Minimum external creepage distance is measured to 8.4 mm, minimum distance through insulation is measured to 5.56 mm, and minimum distance through insulation is measured to 0.4 mm. Maximum operation temperature: 110 °C

ELS270., ELS271., ELS272., ELS500., ELS050L., ELS501., ELS051L., ELS511., ELS052L., ELS600., ELS601., ELS060L., ELS60U., ELS611., ELS061L., ELS61U., ELS062L., ELS62U.

Minimum external creepage distance is measured to 8.4 mm, minimum distance through insulation is measured to 5.56 mm, and minimum distance through insulation is measured to 0.4 mm.

Maximum operation temperature: 100 °C

ELL300.

Minimum external creepage distance is measured to 8.0 mm, minimum distance through insulation is measured to 0.9 mm, and minimum distance through insulation is measured to 0.9 mm.

Maximum operation temperature: 110 °C

EL2514.

Minimum external creepage distance is measured to 7.7 mm, minimum distance through insulation is measured to 3.5 mm, and minimum distance through insulation is measured to 0.4 mm.

Maximum operation temperature: 110 °C

ELM406A., ELM440A., ELM460A., ELM660A.

Minimum external creepage distance is measured to 5.7 mm, minimum distance through insulation is measured to 4.31 mm, and minimum distance through insulation is measured to 0.4 mm.

Maximum operation temperature: 125 °C

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SGS Fimko Ltd

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Business ID 0978538-5



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FI/40818

Additional information

ELM840A., ELM860A.

Minimum external creepage distance is measured to 5.7 mm, minimum distance through insulation is measured to 4.31 mm, and minimum distance through insulation is measured to 0.3 mm.

Maximum operation temperature: 125 °C

ELM60U., ELM61U.

Minimum external creepage distance is measured to 5.0 mm, minimum distance through insulation is measured to 4.0 mm, and minimum distance through insulation is measured to 0.4 mm.

Maximum operation temperature: 100 °C

EL0200., EL0201., EL0202., EL0210., EL0211., EL0212. Minimum external creepage distance is measured to 4.4 mm, minimum distance through insulation is measured to 3.5 mm, and minimum distance through insulation is measured to 0.4 mm. Maximum operation temperature: 100 °C

Tested for reinforced insulation. Tested for 5000 m.

The symbol "X" in type denotes X = Part no. (0,1,2,3,4).

The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

Thermal cycling test, 10 cycles. Each cycle: 68h in 85 or 100 or 110 or 125 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800 Vac/1 minute.

The product is certified according to the following standards:

IEC 60065:2014

IEC 60950-1:2005 + A1:2009 + A2:2013

IEC 61347-1:2015

IEC 62368-1:2014

IEC 60335-1:2010 + A1:2013

This certificate replaces previous certificate FI 29499 A2 dated 7 May 2018. Renewal of the certificate due standard update, addition of new factory, addition of new models, change of operation temperature and addition of new materials.

As shown in the Test Report(s) No(s): 397064



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SGS Fimko Ltd



HEL-CERT200900417-01 Our Ref.

Product Optocoupler

4N25., 4N26., 4N27., 4N28., 4N29., 4N30., 4N31., 4N32., 4N33., 4N35., 4N36., 4N37., 4N38., Type

4N50., 4N51., 4N52., 4N53., 4N54., 4N55., 4N56., 4N57., 4N58., 4N59., CNX35U., CNX36U., CNX38U., CNX39U., CNY17-1., CNY171-1., CNY171-2., CNY171-3., CNY171-4., CNY17-2., CNY17-3., CNY17-4., CNY17F-1., CNY17F1-1., CNY17F1-2., CNY17F1-3., CNY17F1-4., CNY17F-2., CNY17F-3., CNY17F-4., CNY17G., CNY75., CQY80., EL2501., EL2561., EL301X., EL302X., EL303X., EL304X., EL305X., EL306X., EL307X., EL308X., EL3120., EL3140., EL3150., EL3161., EL3162., EL3163., EL3180., EL3184., EL371., EL406A., EL410A., EL420A., EL425A.,

EL435A., EL440A., EL460A., EL606A., EL610., EL610A., EL620A., EL625A., EL635A., EL640A., EL660A., EL717., EL725., EL806A., EL810A., EL814., EL815., EL816., EL817., EL8171., EL817H., EL817L., EL819., EL820A., EL824., EL825., EL825A., EL826., EL827., EL829., EL835A., EL840A., EL851., EL852., EL860A., EL9001., ELD851., ELD852., ELT301X.,

ELT302X., ELT303X., ELT304X., ELT305X., ELT306X., ELT307X., ELT308X., H11A1., H11A2., H11A3., H11A4., H11A5., H11AA1., H11AA2., H11AA3., H11AA4., H11B1., H11B2., H11B255.,

H11B3., H11D1., H11D2., H11D3., H11D4., H11G1., H11G2., H11G3., H11L1., H11L2., H11L3., HS817., K233., K817P., MCT2., MCT210., MCT2E., MOC119., MOC8020., MOC8021.,

MOC8030., MOC8050., MOC8080., MOC8100., MOC8101., MOC8102., MOC8103., MOC8104., MOC8105., MOC8106., MOC8107., MOC8108., MOC8111., MOC8112., MOC8113., SL5500., SL5501., SL5504., SL5511., TCDT110., TCDT111., TCDT112., TCET110., TCET111., TCET120.,

TIL111., TIL113., TIL117., VO610A., VO615A.

Trademark EVERLIGHT

Certificate Holder Everlight Electronics Co., Ltd.

250 V rms

6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

Technical information

The product is

certified according to the following

standard(s)

EN 60065:2014 + A11:2017

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

EN 61347-1:2015

EN 62368-1:2014 + A11:2017

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019

This certificate is valid until 2025-09-18 provided that the Conditions for FI certification are met. Validity

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 2020-09-18

SGS Fimko Ltd

Signature

Matte Hettunen

Matti Huttunen

Certification Engineer

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SGS Fimko Ltd

Takomotie 8, FI-00380 Helsinki, Finland t. +358 9 696 361 www.sgs.fi

Business ID 0978538-5







Page 2 of 4 to Certificate:

FI/40816

Manufacturer

Manufacturing site

Everlight Electronics Co., Ltd. 6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

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

3. Everlight Electronics Co., Ltd. Tongluo Plan No. 26, Chung Hsin Road, Chung Hsin Industrial Park, Miaoli County, 36647, Taiwan

Additional information

The product has certificate P15219385/A8 issued by Nemko AS in accordance with the Nordic Certification Service system.

EL817H.

Minimum external creepage distance is measured to 7.7 mm, minimum internal creepage distance is measured to 6.0 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operating temperature: 125 °C

EL814., EL815., EL824., EL825.

Minimum external creepage distance is measured to 7.9 mm, minimum internal creepage distance is measured to 6.0 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operating temperature: 110 °C

ELD851., ELD852., 4N29., 4N30., 4N31., 4N32., 4N33., 4N50., 4N51., 4N52., 4N53., 4N54., 4N55., 4N56., 4N57., 4N58., 4N59., H11B1., H11B2., H11B3., H11L3., H11B255., H11D1., H11D2., H11D3., H11D4., H11G1., H11G2., H11G3., H11L1., H11L2., TIL113., MOC119., MOC8020., MOC8021., MOC8030., MOC8050., MOC8080., EL301X., EL302X., EL303X., EL304X., EL305X., EL306X., EL307X., EL308X., EL3161., EL3162., EL3163., EL371., EL725., EL851., EL852. Minimum external creepage distance is measured to 7.7 mm, minimum internal creepage distance is measured to 5.5 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operating temperature: 100 °C

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SGS Fimko Ltd

Page 3 of 4 to Certificate:

FI/40816

Additional information

EL2501., EL2561., EL3120., EL3140., EL3150., EL3180., EL3184., EL406A., EL410A., EL420A., EL425A., EL435A., EL440A., EL460A., EL606A., EL610., EL610A., EL620A., EL625A., EL635A., EL640A., EL660A., EL717., EL806A., EL810A., EL816., EL817., EL817L., EL819., EL826., EL827., EL829., EL8171., EL820A., EL825A., EL835A., EL840A., EL860A., EL9001., ELT301X., ELT302X., ELT303X., ELT304X., ELT305X., ELT306X., ELT307X., ELT308X., 4N25., 4N26., 4N27., 4N28., 4N35., 4N36., 4N37., 4N38., MCT210., MCT2., MCT2E., CNY17-1., CNY17-2., CNY17-3., CNY17-4., CNY17F-1., CNY17F-2., CNY17F-3., CNY17F-4., CNY17G., CNY171-1., CNY171-2., CNY171-3., CNY171-4., CNY17F1-1., CNY17F1-2., CNY17F1-3., CNY17F1-4.. CNY75., CNX36U., CNX38U., CNX39U., CQY80., K233., MOC8100. MOC8101., MOC8102., MOC8103., MOC8104., MOC8105., MOC8106., MOC8107., MOC8108., MOC8111., MOC8112., MOC8113., H11A1., H11A2., H11A3., H11A4., H11A5., H11AA1., H11AA2., H11AA3., H11AA4., HS817., K817P., TCET110., TCET111., TCET120., TCDT110., TCDT111., TCDT112., TIL111., TIL117., CNX35U., SL5500., SL5501., SL5504., SL5511., VO610A., VO615A. Minimum external creepage distance is measured to 7.7 mm, minimum internal creepage distance is measured to 6.0 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operating temperature: 110 °C

Tested for reinforced insulation.
Tested for 5000 m.
The symbol "X" in type denotes X = Part no. (0,1,2,3,4).
The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

Thermal cycling test, 10 cycles. Each cycle: 68h in 85 or 100 or 110 or 125 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800 Vac/1 minute.

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SGS Fimko Ltd

Page 4 of 4 to Certificate:

FI/40816

Additional information

The product is certified according to the following standards:

IEC 60065:2014

IEC 60950-1:2005 + A1:2009 + A2:2013

IEC 61347-1:2015 IEC 62368-1:2014

IEC 60335-1:2010 + A1:2013

This certificate replaces previous certificate FI 29128 A3 dated 4 May 2018. Renewal of the certificate due standard update, addition of new factory, change of operation temperature and addition of new materials.

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

397064



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SGS Fimko Ltd

Takomotie 8, FI-00380 Helsinki, Finland t. +358 9 696 361 www.sgs.fi

Business ID 0978538-5



HEL-CERT200900419-01 Our Ref.

Product Optocoupler

EL617., 6N135., 6N136., 6N137., 6N138., 6N139., EL2502., EL2503., EL4502., Type

EL4503., EL253L., EL2531., EL4534., EL2730., EL2731., EL2601., EL2611., EL2630., EL2631., EL4661., EL354L., EL357L., EL355L., EL10XX., EL111X., EL161X., EL151X.,

EL260L., EL2530., EL261A., EL261N., EL263L., EL263A., EL263N., EL250L., ELW139., ELW3184., ELW260L., ELW250L., ELW137., ELW2601., ELW2611., ELW136., ELW135., ELW4502., ELW4503., ELW138., ELW3120., ELW3140., ELW3150., ELW3180., CNY75G., CQY80.G, K233.G, TCDT110.G, TCDT111.G, TCDT112.G, HS817.G, TCET110.G, TCET111.G, TCET120.G, EL4504., EL2200., ELR2502., ELR2503., ELR1502., ELR1503., ELR3602., ELR3603., ELR2602., ELR2603., ELR1602., ELR1603., EL2211., EL847., EL844., EL845., ELW4504., EL2201., EL2202., EL2219., EL2212., EL2231., EL2232., ELR3502., ELR3503., ELR0223., ELR1223., ELR2223., ELR3223., EL101L., EL101XH., ELW2200., ELW2201., ELW2202., ELW2219., ELW2211., ELW2212., EX101U., ELL200., ELR0323., ELR1323., ELR2323., ELR3323., ELR0313., ELR1313., ELR2313.,

ELR3313., ELR0213., ELR1213., ELR2213., ELR3213.

Trademark EVERLIGHT

Certificate Holder Everlight Electronics Co., Ltd.

6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

Technical information

The product is

certified according to the following

standard(s)

250 V rms

EN 60065:2014 + A11:2017

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

EN 61347-1:2015

EN 62368-1:2014 + A11:2017

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019

Validity This certificate is valid until 2025-09-18 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 2020-09-18

SGS Fimko Ltd

Signature

Matte Hettunen

Matti Huttunen

Certification Engineer

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Business ID 0978538-5



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Manufacturer

Manufacturing site

Additional information

Everlight Electronics Co., Ltd. 6-8, Zhonghua Road, Shulin, New Taipei City, 23860, Taiwan

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

3. Everlight Electronics Co., Ltd. Tongluo Plan No. 26, Chung Hsin Road, Chung Hsin Industrial Park, Miaoli County, 36647, Taiwan

The product has certificate P15219385/A8 issued by Nemko AS in accordance with the Nordic Certification Service system.

ELL200.

Minimum external creepage distance is measured to 11.85 mm and minimum distance through insulation is measured to 1.0 mm. Maximum operation temperature: 110 °C

ELW135., ELW136., ELW137., ELW138., ELW139., ELW250L., ELW260L., ELW2200., ELW2201., ELW2202., ELW2211., ELW2212., ELW2219., ELW2601., ELW3611., ELW3120., ELW3140., ELW3150., ELW3180., ELW3184., ELW4502., ELW4503., ELW4504. Minimum external creepage distance is measured to 11.85 mm, minimum internal creepage distance is measured to 7.72 mm and minimum distance through insulation is measured to 0.9 mm. Maximum operation temperature: 100 °C

EL2200., EL2201., EL2202., EL2211., EL2212., EL2219., EL2231., EL2232., ELR0223., ELR1223., ELR1502., ELR1503., ELR1602., ELR1603., ELR2223., ELR2502., ELR2503., ELR2602., ELR2603., ELR3223., ELR3502., ELR3603., ELR3603. Minimum external creepage distance is measured to 8.2 mm, minimum internal creepage distance is measured to 5.1 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operation temperature: 100 °C

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Additional information

ELR0323., ELR1323., ELR2323., ELR3323., ELR0313., ELR1313., ELR2313., ELR3313., ELR0213., ELR2213., ELR3213. Minimum external creepage distance is measured to 8.2 mm, minimum internal creepage distance is measured to 5.1 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operation temperature: 85 °C

EL10XX., EL101L., EL101XH., EX101U., EL111X., EL354L., EL355L., EL357L., EL151X., EL161X.

Minimum external creepage distance is measured to 8.1 mm, minimum internal creepage distance is measured to 5.2 mm and minimum distance through insulation is measured to 0.4 mm.

Maximum operation temperature: 125 °C

EL617., CNY75G., CQY80.G, K233.G, TCDT110.G, TCDT111.G, TCDT112.G, HS817.G, TCET110.G, TCET111.G, TCET120.G Minimum external creepage distance is measured to 8.0 mm, minimum internal creepage distance is measured to 6.0 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operation temperature: 110 °C

EL847., EL844., EL845.,

Minimum external creepage distance is measured to 8.0 mm, minimum internal creepage distance is measured to 5.1 mm and minimum distance through insulation is measured to 0.5 mm.

Maximum operation temperature: 110 °C

6N135., 6N136., 6N137., 6N138., 6N139., EL2502., EL250L., EL2503., EL2530., EL2531., EL2531., EL4502., EL4503., EL4534., EL2730., EL2731., EL2601., EL260L., EL2611., EL261A., EL261N., EL2630., EL2631., EL263A., EL263L., EL263N., EL4504., EL4661. Minimum external creepage distance is measured to 8.0 mm, minimum internal creepage distance is measured to 5.0 mm and minimum distance through insulation is measured to 0.5 mm. Maximum operation temperature: 100 °C

Tested for reinforced insulation. Tested for 5000 m. The symbol "X" in type denotes X = Part no. (0,1,2,3,4). The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

Thermal cycling test, 10 cycles. Each cycle: 68h in 85 or 100 or 110 or 125 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800 Vac/1 minute.

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Additional information

The product is certified according to the following standards:

IEC 60065:2014

IEC 60950-1:2005 + A1:2009 + A2:2013

IEC 61347-1:2015

IEC 62368-1:2014

IEC 60335-1:2010 + A1:2013

This certificate replaces previous certificate FI 29133 A3 dated 7 May 2018. Renewal of the certificate due standard update, addition of new factory, addition of new models, change of operation temperature and addition of new materials.

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

397064



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