

CERTIFICATEFOR EUROPEAN PRODUCT SAFETY

Reference No. SE-S-2001060

Optocouplers

Type designation:

EL817, EL816, EL819, EL829, EL826, EL827, EL717, 4N25, 4N26, 4N27, 4N28, 4N35, 4N36, 4N37, 4N38, MCT2, MCT2E, MCT210, CNY17-1, CNY17-2, CNY17-3, CNY17-4, MOC8111, MOC8112, MOC8113, H11A1, H11A2, H11A3, H11A4, H11A5, TIL111, TIL117, CNX35U, ELS3120, ELS3140, ELS3150, ELS3180, ELS3184, EL806A, EL810A, EL820A, EL825A, EL835A, EL840A, EL860A, EL406A, EL410A, EL420A, EL425A, EL435A, EL440A, EL460A, EL606A, EL610A, EL620A, EL625A, EL635A, EL640A, EL660A, ELT301X, ELT302X, ELT305X, ELT303X, ELT304X, ELT306X, ELT308X, ELT307X, ELW137, ELW139, ELW2601, ELW2611, ELW136, ELW135, ELW4502, ELW4503, ELW138, ELW260L, ELW250L, ELW4504, ELW2200, ELW2201, ELW2202, ELW2219, ELW2211, ELW2212, EL3120, EL3140, EL3150, EL3180, EL3184, ELW3120, ELW3140, ELW3150, ELW3180, ELW3184, ELD3H5, ELD3H6, ELD3H7. ELD3H4, ELQ3H4, ELQ3H5, ELQ3H7, ELM314, ELM452, ELM453, ELM600, ELM601, ELM611, ELM452L, ELM453L, ELM600L, ELM601L, ELM611L, ELM454, ELM80L, ELM81L, ELD851, ELD852, 4N29, 4N30, 4N31, 4N32, 4N33, H11B1, H11B2, H11B3, H11B255, TIL113, MOC119, MOC8020, MOC8021, MOC8030, MOC8050, MOC8080, EL301X, EL302X, EL305X, EL307X, EL303X, EL304X, EL306X, EL308X, EL3161, EL3162, EL3163, H11L1, H11L2 EL2200, EL2212, EL2231, EL2201, EL2202, EL2219, EL2211, EL2232, ELS500, ELS501, ELS511, ELS050L, ELS051L, ELS052L, ELS600, ELS601, ELS611, ELS060L, ELS061L, ELS062L, ELR3602, ELR3603, ELR2602, ELR2603, ELR1602, ELR1603, ELR3502, ELR3503, ELR2502, ELR2503, ELR1502, ELR1503, ELR0223, ELR1223, ELR2223, ELR3223, EL847, EL844, EL845, EL2801, EL354, EL355, EL356. EL357, EL359, EL121, EL124, EL2701, EL2705, EL357N, EL356N, EL121N, EL124N, EL2701N, EL354N, EL2705N, EL3H7, EL281, EL3H4, EL280, EL3H71, ELM301X, ELM302X, ELM305X, ELM307X, ELM303X, ELM304X, ELM306X, ELM308X, EL815, EL814, EL824, EL825 EL617, CNY75G, CQY80.G, K233.G, TCDT110.G, TCDT111. G, TCDT112.G, HS817.G, TCET110.G, TCET111.G, TCET120.G, EL205, EL206, EL207, EL208, EL211, EL212, EL213, EL215, EL216, EL217, ELD207, ELD208, ELD213, ELD217, ELD205, ELD206, ELD211, 6N135, 6N136, 6N137, 6N138, 6N139. EL2502, EL250L, EL2503, EL4502, EL4503, EL2530, EL253L, EL2531, EL4534, EL2730, EL2731, EL2601, EL260L, EL2611, EL261A, EL261N, EL2630, EL263L, EL263A, EL263N, EL2631, EL4661, EL4504, EL0500, EL0501, EL0452, EL0453, EL0454, EL0600, EL0601, EL0611, EL0700, EL050L, EL060L, EL0701, EL061A, EL061N, EL0551, EL0530, EL0531, EL0533, EL063X, EL0661, EL0730, EL0731, EL053L, EL101X, EL357L, EL355L, EL354L, EL111X, EL161X, EL151X, EL101L EL451, EL452, EL3H7L, EL351, EL352, EL3571N, EL357NL, ELM460A, ELM840A, ELM860A H11L3, H11D1, H11D2, H11D3, H11D4, H11G1, H11G2, EL371,

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Reference No. SE-S-2001060

EL725, 4N50, 4N51, 4N52, 4N53, 4N54, 4N55, 4N56, 4N57, 4N58, 4N59, EL852, EL851, H11G3, CNX36U, CNX38U, CNX39U, SL5500, SL5501, SL5504, SL5511, MOC8100, MOC8101, MOC8102, MOC8103, MOC8104, MOC8105, MOC8106, MOC8107, MOC8108, EL9001, CNY17F-1, CNY17F-2, CNY17F-3, CNY17F-4, H11AA1, H11AA2, H11AA3, H11AA4, HS817, K817P, TCET110, TCET111, TCET120, VO610A, VO615A, CNY17G, CNY75, CQY80, K233, TCDT110, TCDT111, TCDT112, EL2501, EL2561, EL8171, CNY171-1, CNY171-2, CNY171-3, CNY171-4, CNY17F1-1, CNY17F1-2, CNY17F1-3, CNY17F1-4, EL610, EL817L, EL080L, EL081L, EL083L, EL086L ELS270, ELS271, ELS272 EL2514, EL0200, EL0201, EL0202, EL0210, EL0211, EL0212, ELL300, ELM440A, ELM640A, ELM660A EL3H4U, EL101XH, EL101U, EL354NU, EL357NU, ELR0323, ELR1323, ELR2323, ELR3323, ELR0313, ELR1313, ELR2313, ELR3313, ELR0213, ELR1213, ELR2213, ELR3213, ELS62U, ELM406A

Certificate holder:

Everlight Electronics Co. Ltd. No.6-8 Zhonghua Rd. Shulin Dist. 23860 New Taipei City Taiwan

The product complies with the standard(s):

EN 60065:2014+A11 IEC 60065:2014, EN 60335-1:2012+A11, IEC 60335-1:2010+A1,

EN 60950-1:2006 and A11+A1+A12+A2

IEC 60950-1:2005+A1+A2

EN 61347-1:2015 IEC 61347-1:2015 EN 62368-1:2014+A11 IEC 62368-1:2014,

Date of expiry:

20 February, 2025

Additional information in Appendix

Certification Body:

Intertek Semko AB, Product Certification

Place: Kista - Stockholm

Signed:

Date: 20 February, 2020

Henrik Wikström



Reference No. SE-S-2001060

Technical Data:

Ratings

250Vrms

Type

EL817./EL816./EL819./EL829./EL826./EL827./ EL717./4N25./4N26./4N27./4N28./4N35./4N36./4N37./4N38./MCT2./MCT2E./ MCT210./CNY17-1./CNY17-2./CNY17-3./CNY17-4./MOC8111./MOC8112./ MOC8113./H11A1./H11A2./H11A3./H11A4./H11A5./TIL111./TIL117./CNX35U.

Principal characteristics:

Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 $4800 \, \text{Vac}/1$ minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 110°C . Tested for $5000 \, \text{m}$.

Type

ELS3120. / ELS3140. / ELS3150. / ELS3180. / ELS3184

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.4mm, minimum internal creepage distance is measured to 5.56mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $110\,^{\circ}\text{C}$

Type

EL806A./ EL810A./ EL820A./ EL825A./ EL835A./ EL840A./ EL860A./ EL406A./ EL410A./ EL420A./ EL425A./ EL435A./ EL440A./ EL460A./ EL606A./ EL610A./ EL620A./ EL625A./ EL635A./ EL640A./ EL660A.





Reference No. SE-S-2001060

Principal characteristics

Solid State Relay. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Maximum operating temperature: 125° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A{\sim}$ Z or numbers, and denote different pin shape.

Туре

ELT301X./ ELT302X./ ELT305X./ ELT303X./ ELT304X./ ELT306X./ ELT308X./ ELT307X.

Principal characteristics

Triac Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Maximum operating temperature: 110° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 4800Vac/1 minute. 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.

Type

ELW137./ ELW139./ ELW2601./ ELW2611./ ELW136./ ELW135./ ELW4502./ ELW4503./ ELW138./ ELW260L./ ELW250L./ ELW4504./ELW2200./ ELW2201./ ELW2202./ ELW2219./ ELW2211./ ELW2212. Trade mark (if different from page 1)

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to $11.85\,\mathrm{mm}$, minimum internal creepage distance is measured to $7.72\,\mathrm{mm}$ and minimum distance through insulation is measured to $0.9\,\mathrm{mm}$. Tested for reinforced insulation. Maximum operating temperature: $100\,^\circ\mathrm{C}$. Thermal cycling test, $10\,\mathrm{cycles}$. Each cycle: $68\,\mathrm{h}$ in $100\,\mathrm{degree}$ C, $10\,\mathrm{mm}$ in $100\,\mathrm{degree}$ C, $100\,\mathrm{mm}$ in $100\,\mathrm{degree}$ C, $100\,\mathrm{mm}$

me or one of its marks for the sale or



Reference No. SE-S-2001060

Туре

EL3120./ EL3140./ EL3150./ EL3180./ EL3184.

Principal characteristics

IGBT Gate Drive Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Maximum operating temperature: 110° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape.

Type

ELW3120./ ELW3140./ ELW3150./ ELW3180./ ELW3184.

Principal characteristics

IGBT Gate Drive Optocoupler. Minimum external creepage distance is measured to 11.85mm, minimum internal creepage distance is measured to 7.72mm and minimum distance through insulation is measured to 0.9mm. Tested for reinforced insulation. Maximum operating temperature: 110° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape.

Type

ELD3H5./ ELD3H6./ ELD3H7./ ELD3H4./ ELQ3H4./ ELQ3H5./ ELQ3H7./ ELM314.

Principal characteristics

Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Maximum operating temperature: 110° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 100° C, 100° C degree C, 100° C in 100° C and 100° C and 100° C degree C. After the cycling test a humidity test for 100° C relative humidity. Electric strength test between input and output 100° C minute. The symbol "." in type designation may be blank, 100° C or numbers, and denote different pin shape.

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Type

ELM452./ ELM453./ ELM600./ ELM601./ ELM611./ ELM452L./ ELM453L./ ELM600L./ ELM601L./ ELM611L./ELM454./ELM80L./ ELM81L.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Maximum operating temperature: 100° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 100 deg

Type

ELD851./ELD852./4N29./4N30./4N31./4N32./4N33./H11B1./H11B2./H11B3./H11B255./TIL113./MOC119./MOC8020./MOC8021./MOC8030./MOC8050./MOC8080./EL301X./EL302X./EL305X./EL307X./EL303X./EL304X./EL306X./EL308X./EL3161./EL3162./EL3163./H11L1./H11L2.

Principal characteristics

Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $100 \, ^{\circ}\text{C}$. The symbol "X" in type denotes X = Part no. (0,1,2,3,4).

Type

EL2200./EL2212./EL2231./EL2201./EL2202./EL2219./EL2211./ EL2232.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.2mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Maximum operating temperature: 100° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 10 in 100 degree C, 100 degree C, 100 high in 100 degree C and 100 high in 100 degree C. After the cycling test a humidity test for 100 high in 100 high relative humidity. Electric strength test between input and output 100 high in 10

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Reference No. SE-S-2001060

Type

ELS500./ELS501./ELS511./ELS050L./ELS051L./ELS052L./ELS600./ELS601./ELS611./ELS060L./ELS061L./ELS062L.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.4mm, minimum internal creepage distance is measured to 5.56mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 °C.

Type

ELR3602./ELR3603./ELR2602./ELR2603./ELR1602./ELR1603./ELR3502./ ELR3503./ELR2502./ELR2503./ELR1502./ELR1503./ELR0223./ELR1223./ ELR2223./ELR3223.

Principal characteristics

Power Triac Optocoupler. Minimum external creepage distance is measured to 8.2mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 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 tests, between input and output 4800 Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $100 \, ^{\circ}\text{C}$

Type EL847./EL844./EL845.

Principal characteristics

Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 tests, between input and output 4800Vac/1 minute. The symbol "." in type designation may be A to Z, numbers or blank, denote different pin shape. Maximum operating temperature: 110°C

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Reference No. SE-S-2001060

Type

EL2801./EL354./EL355./EL356./EL357./EL359./EL121./EL124./EL2701./ EL2705./EL357N./EL356N./EL121N./EL124N./EL2701N./EL354N./EL2705N./ EL3H7./EL281./EL3H4./EL280./EL3H71./ELM301X./ELM302X./ELM305X./ ELM307X./ELM303X./ELM304X./ELM306X./ELM308X.

Principal characteristics

Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $110 \, ^{\circ}\text{C}$. The symbol "X" in type denotes X = Part no. (0,1,2,3,4).

Type EL815./ EL814./EL824./ EL825.

Principal characteristics

Minimum external creepage distance is measured to 7.9mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 110 °C

Туре

EL617./CNY75G./CQY80.G/K233.G/TCDT110.G/TCDT111.G/TCDT112.G/ HS817.G/TCET110.G/TCET111.G/ TCET120.G

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $110 \, ^{\circ}\text{C}$

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Type

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

Principal characteristics

Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 2400Vac/1 minute. The symbol "." in type designation may be blank, $A{\sim}Z$ or numbers, and denote different pin shape. Maximum operating temperature: $110{\,}^{\circ}C$

Type

6N135./6N136./6N137./6N138./6N139./EL2502./EL250L./EL2503./EL4502./ EL4503./EL2530./EL253L./EL2531./EL4534./EL2730./EL2731./EL2601./ EL260L./EL2611./EL261A./EL261N./EL2630./EL263L./EL263A./EL263N./ EL2631./EL4661./EL4504.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 5.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C

Туре

EL0500./EL0501./EL0452./EL0453./EL0454./EL0600./EL0601./EL0611./ EL0700./EL050L./EL060L./EL0701./EL061A./EL061N./EL0551./EL0530./ EL0531./EL0533./EL063X./EL0661./EL0730./EL0731./EL053L.

Principal characteristics

High Speed Optocoupler . Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 2400Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 100° C. The symbol "X" in type denotes X = Part no. (0,1,L,A,N).

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Type

EL101X./ EL357L./ EL355L./ EL354L./ EL111X./ EL161X./ EL151X./EL101L.

Principal characteristics

Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110° C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9). Tested for 5000m

Туре

EL451./EL452./EL3H7L./ EL351./ EL352./ EL3571N./ EL357NL.

Principal characteristics

Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $110 \, ^{\circ}\text{C}$. The symbol "X" in type denotes X = Part no. (0,1,2,3,4).

Type

ELM460A./ELM840A./ELM860A.

Principal characteristics

Solid State Relay. Minimum external creepage distance is measured to 5.7mm, minimum internal creepage distance is measured to 4.31mm and minimum distance through insulation is measured to 0.3mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 125 °C.





Reference No. SE-S-2001060

Type

H11L3./H11D1./H11D2./H11D3./H11D4./H11G1./H11G2./EL371./ EL725./4N50./4N51./4N52./4N53./4N54./4N55./4N56./4N57./4N58./4N59./ EL852./EL851./H11G3.

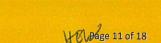
Principal characteristics Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $100 \, ^{\circ}\text{C}$. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)

Type

CNX36U./CNX38U./CNX39U./SL5500./SL5501./SL5504./SL5511./ MOC8100./MOC8101./MOC8102./MOC8103./MOC8104./MOC8105./ MOC8106./MOC8107./MOC8108./EL9001./CNY17F-1./CNY17F-2./ CNY17F-3./CNY17F-4./H11AA1./H11AA2./H11AA3./H11AA4./HS817./ K817P./TCET110.

Principal characteristics

Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 110°C . Tested for 5000m.





Reference No. SE-S-2001060

Type

TCET111./TCET120./V0610A./V0615A./CNY17G./CNY75./CQY80./K233./TCDT110./TCDT111./TCDT112./EL2501./EL2561./EL8171./CNY171-1./CNY171-2./CNY171-3./CNY171-4./CNY17F1-1./CNY17F1-2./CNY17F1-3./CNY17F1-4./EL610./EL817L.

Principal characteristics

Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A\sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $110^{\circ}C$. Tested for 5000m.

Type EL080L./EL081L./EL083L./ EL086L.

Principal characteristics High Speed Optocoupler . Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 2400Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 100° C. The symbol "X" in type denotes X = Part no. (0,1,L,A,N).

Type ELS270. / ELS271. / ELS272.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.4mm, minimum internal creepage distance is measured to 5.56mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 °C.

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Reference No. SE-S-2001060

Type EL2514.

Principal characteristics

Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 110°C . Tested for 5000 m.

Type EL0200. / EL0201. / EL0202. / EL0210. / EL0211. / EL0212.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 2400Vac/1 minute. The symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 100° C. The symbol "X" in type denotes X = Part no. (0,1,L,A,N). Product Optocoupler

Type ELL300.

Principal characteristics

Linear Optocoupler. Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 0.90mm and minimum distance through insulation is measured to 0.90mm. Tested for basic/supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 °C.





Reference No. SE-S-2001060

Type ELM440A./ELM640A./ELM660A.

Principal characteristics

Solid State Relay. Minimum external creepage distance is measured to 5.7mm, minimum internal creepage distance is measured to 4.31mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 125 °C.

Type EL3H4U

Principal characteristics

Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A\sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $125^{\circ}C$

Type EL101XH.

Principal characteristics

Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 125 degree C, 1h in 25degree 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: 125°C . The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9).





Reference No. SE-S-2001060

Type EL101U

Principal characteristics

Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $125 \, ^{\circ}\text{C}$. The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9).

Type EL354NU / EL357NU

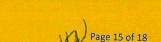
Principal characteristics

Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 4800Vac/1 minute. The symbol "." in type designation may be blank, $A\sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $125^{\circ}C$

Type
ELR0323. / ELR1323. / ELR2323. / ELR3323. / ELR0313. / ELR1313. /
ELR2313. / ELR3313. / ELR0213. / ELR1213. / ELR2213. / ELR3213

Principal characteristics

Power Triac Optocoupler. Minimum external creepage distance is measured to 8.2mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 85 degree C, 1h in 25degree 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 tests, between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 85°C





Reference No. SE-S-2001060

Type EL357NH./EL3H7H./EL3H7U.

Principal characteristics

Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $125 \, ^{\circ}\text{C}$

Type EL817H.

Principal characteristics

Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $125 \, ^{\circ}\text{C}$

Type ELM60U. / ELM61U.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Maximum operating temperature: 100° C. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 10 in 100 degree C, 100 degree C, 101 in 100 degree C and 101 in 100 degree C. After the cycling test a humidity test for 101 for 102 relative humidity. Electric strength test between input and 103 output 103 minute. The symbol "." in type designation may be blank, 104 or numbers, and denote different pin shape.





Reference No. SE-S-2001060

Type ELS60U. / ELS61U. / ELS62U.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.4mm, minimum internal creepage distance is measured to 5.56mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree 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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 °C.

Type ELM406A

Principal characteristics

Solid State Relay. Minimum external creepage distance is measured to 5.7mm, minimum internal creepage distance is measured to 4.31mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 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 symbol "." in type designation may be blank, $A \sim Z$ or numbers, and denote different pin shape. Maximum operating temperature: $125 \, ^{\circ}\text{C}$.

Manufacturing Sites:

Everlight Electronics (China) Co., Ltd No. 2135 Zhong Shan North Road Wujiang Economy Development Zone Jiangsu China

Everlight Electronics Co., Ltd. Tongluo Plant No. 26, Chung Hsin Rd., Chung Hsin Industrial Park, Miaoli County 36647 Taiwan

This certificate is based on a certificate with ref. No. P15219385/A7 dated 11-02-2020, issued by Nemko AS according to the Nordic Certification Service Agreement.

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Reference No. SE-S-2001060

Certification Body:

Intertek Semko AB, Product Certification

Place: Kista - Stockholm

Signed:

Date: 20 February, 2020

Henrik Wikström