

| | | | | | | | | | |
|---|---|------|---|-----|---|------|-------------------------------------|------|---|
| Product | Optocoupler | | | | | | | | |
| Applicant | Everlight Electronics Co., Ltd. No.6-8, Zhonghua Rd., Shulin Dist., New Taipei City, Taipei, 23860 Taiwan | | | | | | | | |
| Manufacturer | Everlight Electronics Co., Ltd. No.6-8, Zhonghua Rd., Shulin Dist., New Taipei City, Taipei, 23860 Taiwan | | | | | | | | |
| Factory | (2) See page 2 | | | | | | | | |
| Ratings | 250Vrms | | | | | | | | |
| Trade mark | EVERLIGHT | | | | | | | | |
| Model / Type Ref. | 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 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. Tested for 5000m. | | | | | | | | |
| A sample of the product was tested and found to be in conformity with | <table><tr><td>TRON</td><td>EN 60065:2014 IEC 60065:2001, IEC 60065:2001/AMD1:2005, IEC 60065:2001/AMD2:2010</td></tr><tr><td>OFF</td><td>EN 60950-1:2006;A11;A1;A12;A2 EN 62368-1:2014;A11 IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013 IEC 62368-1:2014</td></tr><tr><td>LITE</td><td>EN 61347-1:2015 IEC 61347-1:2015</td></tr><tr><td>HOUS</td><td>EN 60335-1:2012;A11 IEC 60335-1:2010, IEC 60335-1:2010/AMD1:2013</td></tr></table> | TRON | EN 60065:2014 IEC 60065:2001, IEC 60065:2001/AMD1:2005, IEC 60065:2001/AMD2:2010 | OFF | EN 60950-1:2006;A11;A1;A12;A2 EN 62368-1:2014;A11 IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013 IEC 62368-1:2014 | LITE | EN 61347-1:2015 IEC 61347-1:2015 | HOUS | EN 60335-1:2012;A11 IEC 60335-1:2010, IEC 60335-1:2010/AMD1:2013 |
| TRON | EN 60065:2014 IEC 60065:2001, IEC 60065:2001/AMD1:2005, IEC 60065:2001/AMD2:2010 | | | | | | | | |
| OFF | EN 60950-1:2006;A11;A1;A12;A2 EN 62368-1:2014;A11 IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013 IEC 62368-1:2014 | | | | | | | | |
| LITE | EN 61347-1:2015 IEC 61347-1:2015 | | | | | | | | |
| HOUS | EN 60335-1:2012;A11 IEC 60335-1:2010, IEC 60335-1:2010/AMD1:2013 | | | | | | | | |
| Replaces | This certificate replaces previous certificate No. P15219385/A3, due to increase of height of optocouplers in variant pos. 10 from 2.0 mm to 2.2 mm, | | | | | | | | |

Date of issue 26-04-2018

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Certification Department**Nemko AS**Gaustadalléen 30, P.O. Box 73 Blindern, 0314 Oslo, Norway
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ENTERPRISE NUMBER NO974404532

addition of 6 new product families, change model name in variant from EL070L to EL080L and EL071L to EL081L

Validity

This certificate documents conformity with the standards shown, and also applies as license for use of Nemkos name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation.
New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.

Additional information

Additional model(s)

(34) See page 3

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Additional model(s)

Product
Pos. No
Model / Type Ref.
Trade mark (if different from page 1)
Rating
Principal characteristics

Optocoupler
1
EL2200./EL2212./EL2231./EL2201./EL2202./EL2219./EL2211./ EL2232.

250Vrms
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 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 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: 100°C

Product
Pos. No
Model / Type Ref.

Optocoupler
2
ELR3602./ELR3603./ELR2602./ELR2603./ELR1602./ELR1603./ELR3502./
ELR3503./ELR2502./ELR2503./ELR1502./ELR1503./ELR0223./ELR1223./
ELR2223./ELR3223.

Trade mark (if different from page 1)
Rating
Principal characteristics

250Vrms
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 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: 100°C

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| | |
|---------------------------------------|---|
| Product | Optocoupler |
| Pos. No | 3 |
| Model / Type Ref. | EL847./EL844./EL845. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | Optocoupler. 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 |
| Product | Optocoupler |
| Pos. No | 4 |
| Model / Type Ref. | 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. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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. 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). |

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ENTERPRISE NUMBER NO974404532

| | |
|---------------------------------------|--|
| Product | Optocoupler |
| Pos. No | 5 |
| Model / Type Ref. | EL815./ EL814./EL824./ EL825. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | Optocoupler. 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 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: 110°C |
| Product | Optocoupler |
| Pos. No | 6 |
| Model / Type Ref. | EL617./CNY75G./CQY80.G/K233.G/TCDT110.G/TCDT111.G/TCDT112.G/HS817.G/TCET110.G/TCET111.G/ TCET120.G |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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 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. |

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| | |
|---------------------------------------|--|
| Product | Optocoupler |
| Pos. No | 7 |
| Model / Type Ref. | EL205./EL206./EL207./EL208./EL211./EL212./EL213./EL215./EL216./EL217./ ELD207./ELD208./ELD213./ELD217./ELD205./ELD206./ELD211. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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 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~Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C |
| Product | Optocoupler |
| Pos. No | 8 |
| Model / Type Ref. | 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. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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 |

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| | |
|---------------------------------------|---|
| Product | Optocoupler |
| Pos. No | 9 |
| Model / Type Ref. | EL0500./EL0501./EL0452./EL0453./EL0454./EL0600./EL0601./EL0611./ EL0700./EL050L./EL060L./EL0701./EL061A./EL061N./EL0551./EL0530./ EL0531./EL0533./EL063X./EL0661./EL0730./EL0731./EL053L. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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~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 |
| Pos. No | 10 |
| Model / Type Ref. | EL101X./ EL357L./ EL355L./ EL354L./ EL111X./ EL161X./ EL151X./EL101L. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | Optocoupler. 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 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: 110°C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9). Tested for 5000m |

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| | |
|---------------------------------------|---|
| Product | Optocoupler |
| Pos. No | 11 |
| Model / Type Ref. | EL806A./ EL810A./ EL820A./ EL825A./ EL835A./ EL840A./ EL860A./ EL406A./ EL410A./ EL420A./ EL425A./ EL435A./ EL440A./ EL460A./ EL606A./ EL610A./ EL620A./ EL625A./ EL635A./ EL640A./ EL660A. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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: 85°C. Thermal cycling test, 10 cycles. Each cycle: 68h in 85 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. |
| Product | Optocoupler |
| Pos. No | 12 |
| Model / Type Ref. | EL451./EL452./EL3H7L./ EL351./ EL352./ EL3571N./ EL357NL. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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. 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). |

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| | |
|---------------------------------------|--|
| Product | Optocoupler |
| Pos. No | 13 |
| Model / Type Ref. | H11L3./H11D1./H11D2./H11D3./H11D4./H11G1./H11G2./EL371./ EL725./4N50./4N51./4N52./4N53./4N54./4N55./4N56./4N57./4N58./4N59./ EL852./EL851./H11G3. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | Optocoupler. 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 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. The symbol "X" in type denotes X = Part no. (0,1,2,3,4). |
| Product | Optocoupler |
| Pos. No | 14 |
| Model / Type Ref. | 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. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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. 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. Tested for 5000m. |

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ENTERPRISE NUMBER NO974404532

Product Optocoupler
Pos. No 15
Model / Type Ref. 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.

Trade mark (if different from page 1)

Rating 250Vrms
Principal characteristics 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. 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. Tested for 5000m.

Product Optocoupler
Pos. No 16
Model / Type Ref. EL080L./EL081L./EL083L./ EL086L.

Trade mark (if different from page 1)

Rating 250Vrms
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~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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Product Optocoupler
Pos. No 17
Model / Type Ref. ELS500./ELS501./ELS511./ELS050L./ELS051L./ELS052L./ELS600./ELS601./
ELS611./ELS060L./ELS061L./ELS062L.
Trade mark (if different from page 1)
Rating 250Vrms
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.

Product Optocoupler
Pos. No 18
Model / Type Ref. ELM440A./ELM460A./ELM640A./ELM660A./ELM840A./ELM860A.
Trade mark (if different from page 1)
Rating 250Vrms
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 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.

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| | |
|---------------------------------------|--|
| Product | Optocoupler |
| Pos. No | 19 |
| Model / Type Ref. | EL101XH. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | Optocoupler. 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 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. The symbol “X” in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9). |
| Product | Optocoupler |
| Pos. No | 20 |
| Model / Type Ref. | EL357NH./EL3H7H./EL3H7U. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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. 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. |
| Product | Optocoupler |
| Pos. No | 21 |
| Model / Type Ref. | EL817H. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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. 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 |

Date of issue 26-04-2018

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ENTERPRISE NUMBER NO974404532

| | |
|---------------------------------------|---|
| Product | Optocoupler |
| Pos. No | 22 |
| Model / Type Ref. | ELT301X./ ELT302X./ ELT305X./ ELT303X./ ELT304X./ ELT306X./ ELT308X./ ELT307X. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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. |
| Product | Optocoupler |
| Pos. No | 23 |
| Model / Type Ref. | ELM60U. / ELM61U. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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 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. |

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ENTERPRISE NUMBER NO974404532

| | |
|---------------------------------------|--|
| Product | Optocoupler |
| Pos. No | 24 |
| Model / Type Ref. | ELS60U. / ELS61U. / ELS62U. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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. |
| Product | Optocoupler |
| Pos. No | 25 |
| Model / Type Ref. | ELS270. / ELS271. / ELS272. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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. |
| Product | Optocoupler |
| Pos. No | 26 |
| Model / Type Ref. | EL2514. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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~Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. Tested for 5000m. |

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ENTERPRISE NUMBER NO974404532

| | |
|---------------------------------------|--|
| Product | Optocoupler |
| Pos. No | 27 |
| Model / Type Ref. | EL0200. / EL0201. / EL0202. / EL0210. / EL0211. / EL0212. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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~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 |
| Pos. No | 28 |
| Model / Type Ref. | ELL300. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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. |

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Product Optocoupler
Pos. No 29
Model / Type Ref. 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)
Rating 250Vrms
Principal characteristics High Speed 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: 100°C. 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.

Product Optocoupler
Pos. No 30
Model / Type Ref. EL3120./ EL3140./ EL3150./ EL3180./ EL3184.
Trade mark (if different from page 1)
Rating 250Vrms
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 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

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ENTERPRISE NUMBER NO974404532

| | |
|---------------------------------------|---|
| Product | Optocoupler |
| Pos. No | 31 |
| Model / Type Ref. | ELW3120./ ELW3140./ ELW3150./ ELW3180./ ELW3184. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| 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~Z or numbers, and denote different pin shape. |
| Product | Optocoupler |
| Pos. No | 32 |
| Model / Type Ref. | ELD3H5./ ELD3H6./ ELD3H7./ ELD3H4./ ELQ3H4./ ELQ3H5./ ELQ3H7./ ELM314. |
| Trade mark (if different from page 1) | |
| Rating | 250Vrms |
| Principal characteristics | 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: 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~Z or numbers, and denote different pin shape. |

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Product Optocoupler
Pos. No 33
Model / Type Ref. ELM452./ ELM453./ ELM600./ ELM601./ ELM611./ ELM452L./ ELM453L./
ELM600L./ ELM601L./ ELM611L./ELM454./ELM80L./ ELM81L.
Trade mark (if different from page 1)
Rating 250Vrms
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 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.

Product Optocoupler
Pos. No 34
Model / Type Ref. 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.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics Optocoupler. 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 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. The symbol "X" in type denotes X = Part no. (0,1,2,3,4).

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