

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	(3) 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	TRON EN 60065:2014;A11 IEC 60065:2014 OFF EN 60950-1:2006;A11;A1;A12;A2 IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013 LITE EN 61347-1:2015 IEC 61347-1:2015 ITAV EN 62368-1:2014;A11 IEC 62368-1:2014 HOUS EN 60335-1:2012;A11;A13;A1;A14;A2 IEC 60335-1:2010, IEC 60335-1:2010/AMD1:2013
Replaces	This certificate replaces previous certificate No. P15219385/A8, due to addition

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Certification Department**Nemko AS**Philip Pedersens vei 11, 1366 Lysaker, Norway
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ENTERPRISE NUMBER NO974404532

of new models, new factory location and new materials (outer mold: KHG200, inner mold: KHW8200, coating silicone: KMT-1171EL, outer mold: CEL-8240HF10GK).

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)

(47) See page 3

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Additional model(s)

Product	Optocoupler
Pos. No	1
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	2
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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Product
Pos. No
Model / Type Ref.
Trade mark (if different from page 1)
Rating
Principal characteristics

Optocoupler
3
ELW3120./ ELW3140./ ELW3150./ ELW3180./ ELW3184.
250Vrms
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
Pos. No
Model / Type Ref.
Trade mark (if different from page 1)
Rating
Principal characteristics

Optocoupler
4
ELD3H5./ ELD3H6./ ELD3H7./ ELD3H4./ ELQ3H4./ ELQ3H5./ ELQ3H7./ ELM314.
250Vrms
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	5
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	6
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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Product	Optocoupler
Pos. No	7
Model / Type Ref.	EL2200./EL2212./EL2231./EL2201./EL2202./EL2219./EL2211./ EL2232.
Trade mark (if different from page 1)	
Rating	250Vrms
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. 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	Optocoupler
Pos. No	8
Model / Type Ref.	ELR3602./ELR3603./ELR2602./ELR2603./ELR1602./ELR1603./ELR3502./ELR3503./ELR2502./ELR2503./ELR1502./ELR1503./ELR0223./ELR1223./ELR2223./ELR3223.
Trade mark (if different from page 1)	
Rating	250Vrms
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 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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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	9
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	10
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	11
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.
Product	Optocoupler
Pos. No	12
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	13
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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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	14
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	15
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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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	16
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	17
Model / Type Ref.	EL10XX./ 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 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. For model EL101XH.: The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9) For model EX101U.: The symbol "X" may be L or V, and denotes different application.

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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	18
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).
Product	Optocoupler
Pos. No	19
Model / Type Ref.	H11L3./H11D1./H11D2./H11D3./H11D4./H11G1./H11G2./H11G3./EL371./ EL725./4N50./4N51./4N52./4N53./4N54./4N55./4N56./4N57./4N58./4N59./ EL852./EL851.
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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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	20
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.
Product	Optocoupler
Pos. No	21
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.

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Product	Optocoupler
Pos. No	22
Model / Type Ref.	ELM456. / ELM61L. / ELM680. / ELM511.
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	23
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 24
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 25
Model / Type Ref. ELM460A./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 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.

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Product Optocoupler
Pos. No 26
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.
For model EL101XH.: The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9)

Product Optocoupler
Pos. No 27
Model / Type Ref. EX357NH. / EX3H7H. / EX3H7U.
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. The symbol "X" may be L or V, and denotes different application. Maximum operating temperature: 125°C

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

Optocoupler
28
EL817H.

250Vrms

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. The symbol "X" may be L or V, and denotes different application. Maximum operating temperature: 125°C

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

Optocoupler
29
ELM60U. / ELM61U.

250Vrms

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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Product Optocoupler
Pos. No 30
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 31
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 32
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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Product	Optocoupler
Pos. No	33
Model / Type Ref.	ELM453H. / ELM611H.
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	34
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	35
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	36
Model / Type Ref.	ELM440A./ELM640A./ELM660A.
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 0.4mm. 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	37
Model / Type Ref.	EX3H4U.
Trade mark (if different from page 1)	
Rating	250Vrms
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~Z or numbers, and denote different pin shape. The symbol "X" may be L or V, and denotes different application. Maximum operating temperature: 125°C

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ENTERPRISE NUMBER NO974404532

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

Optocoupler
38
EX101U.
250Vrms
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. For model EL101XH.: The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9) For model EX101U.: The symbol "X" may be L or V, and denotes different application.

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

Optocoupler
39
EX354NU. / EX357NU.
250Vrms
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. The symbol "X" may be L or V, and denotes different application. Maximum operating temperature: 125°C

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Product	Optocoupler
Pos. No	40
Model / Type Ref.	ELM406A.
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 0.4mm. 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	41
Model / Type Ref.	ELS3120. / ELS3140. / ELS3150. / ELS3180. / ELS3184.
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 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	42
Model / Type Ref.	ELR0323. / ELR1323. / ELR2323. / ELR3323. / ELR0313. / ELR1313. / ELR2313. / ELR3313. / ELR0213. / ELR1213. / ELR2213. / ELR3213.
Trade mark (if different from page 1)	
Rating	250Vrms
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

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Product	Optocoupler
Pos. No	43
Model / Type Ref.	EX354NU. / EX357NU.
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.
Product	Optocoupler
Pos. No	44
Model / Type Ref.	ELS680.
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	45
Model / Type Ref.	ELL200.
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 46
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: 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~Z or numbers, and denote different pin shape.

Product Optocoupler
Pos. No 47
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.

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