

CATALOGUE 2026-2027
—— INFRARED LED

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EVERLIGHT

EVERLIGHT

One Source For Every Need

EVERLIGHT Electronics Co., Ltd. was founded in 1983 in Taipei, Taiwan led by Chairman Robert Yeh. EVERLIGHT Electronics Co. has over 40 years of R&D experience for reliable capability. With immediate service and an excellent brand reputation, EVERLIGHT has taken top five in the competitive LED market. Our products are manufactured and packed in-house to guarantee maximum quality and service.

EVERLIGHT provides a diverse product portfolio consisting of High Power LEDs, SMD LEDs, Lamps, Lighting Components, LED Lighting Modules, Digital Displays, Opto-couplers and Infrared Components for various applications. Today, EVERLIGHT is a global company with over 6,400 employees based in China, Hong Kong, Japan, Korea, Singapore, Malaysia, India, Germany and U.S.A.

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CONTENTS

Infrared LED, Sensors, Couplers , Digital Isolation

Infrared LED and Silicon Detector		206
Infrared Receiver Module	IRM-Dip series	241
	IRM-SMD series	243
Optic-Fiber Device (Photo Link)	Transmitter (PLT) Component	248
Optical Switch	Encoder	249
	Transmissive Type	249
	Reflective Type	253
Optical Sensors	Ambient Light Sensor	Analog 256
		Digital 259
	Color Sensor	Analog 260
		Digital 261
	Skin Sensor	261
	Proximity Sensor	Digital 262
Photo Coupler	Photo Transistor	4pin SSOP-AC 263
		4Pin SSOP-DC 263
		16pin SSOP-AC 264
		16pin SSOP-DC 264
		4pin SOP-AC 265
		4pin SOP-DC 265
		4pin SSOP-DC 266
		8pin SOP-DC 266
		4pin Long Creepage 268
		5pin Long Creepage 269
		4pin DIP-AC 270
		4pin DIP-DC 270
		6pin DIP-AC 271
		6pin DIP-DC 272
		8pin DIP-DC 273
		16pin DIP-DC 273
		4pin High Isolation 274
		16pin SSOP-DC 275
	Photo Darlington	4pin SSOP-DC 275
		4pin DIP-DC 276
		6pin DIP-DC 277
		8pin DIP-DC 277
	Schmitt Trigger	6pin DIP-DC 278
	High Speed	5pin SOP-DC 278
		5pin SOP 279
		8pin SOP-DC 279
		8pin DIP-DC 281
		8pin Wide Body DIP-DC 283
		6pin SDIP-DC 285
		6pin LSOP 286
		8pin 15mm LLSOP-DC 286
	Triac Driver	4pin DIP-DC 287
		5pin DIP-DC 288
		6pin DIP-DC 289
		4pin SOP 290
	Photo Power Triac Driver	8pin DIP-DC 291
	Solid State Relay	4pin SOP 292
		8pin SOP-2.54mm 292
		4pin DIP 293
		6pin DIP-DC 293
		8pin DIP-DC 294
		16pin DIP 294
		6pin-SDIP-DIP 295
	IGBT Gate Driver	8pin DIP-DC 295
		8pin Wide Body DIP-DC 296
		6pin-LONG CREEPAGE-DC 296
		8pin 15mm-LLSOP-DC 297
	Linear Coupler	Linear 8pin-DIP 298
		Linear 8pin Wide Body DIP-DC 298
	Isoamp	8pin-DIP 299
		8pin SDIP 299

Digital Isolation	High speed Digital isolator	SO8	300
		16pin LSOP	301
		16pin SOPN	302
		16pin QSOP	302
	Gate Driver	8pin SDIP	303
		16pin SDIP	303

ALPHANUMERIC INDEX

INFRARED LED, SENSORS, COUPLERS, DIGITAL ISOLATOR

4N25	272	CE8642MH(TA)-G	301	EL1110-G	269
4N26	272	CE8642ML(TA)-G	301	EL1112-G	269
4N27	272	CEK79	303	EL1113-G	269
4N28	272	CEK87	303	EL1114-G	269
4N29	277	CEN8340EL(TA)-G	302	EL1116-G	269
4N30	277	CEN8340ML(TA)-G	302	EL1117-G	269
4N31	277	CEN8342EL(TA)-G	302	EL1118-G	269
4N32	277	CEN8342ML(TA)-G	302	EL1119-G	269
4N33	277	CEQ8340EL(TA)-G	302	EL121N-G	265
4N35	272	CEQ8340ML(TA)-G	302	EL205	266
4N36	272	CEQ8341EL(TA)-G	302	EL206	266
4N37	272	CEQ8341ML(TA)-G	302	EL207	266
4N38	272	CEQ8342EL(TA)-G	302	EL208	266
6N135	281	CEQ8342ML(TA)-G	302	EL211	266
6N136	281	CLS15-22C/L213B/TR8	260	EL212	266
6N137	281	CLS15-22C/L213G/TR8	260	EL213	266
6N138	282	CLS15-22C/L213R/TR8	260	EL215	266
6N139	282	CLS-16D24-44-DF8/TR8	261	EL216	266
ALS-PDIC17-78C/L749/TR8	259	CNY17-1	272	EL217	266
ALS-PDIC144-6C/L378	258	CNY17-2	272	EL2200	283
ALS-PDIC15-21C/L230/TR8	256	CNY17-3	272	EL2201	283
ALS-PDIC17-51B/L758/TR8	256	CNY17-4	272	EL2202	283
ALS-PDIC17-55C/TR8	256	CNY17F-1	272	EL2530	282
ALS-PDIC17-77B/TR8	257	CNY17F-2	272	EL2531	282
ALS-PDIC17-77C/TR8	257	CNY17F-3	272	EL2601	281
ALS-PDIC243-3B	259	CNY17F-4	272	EL2611	281
ALS-PDIC243-3B/L716	259	CNY64	274	EL2630	282
ALS-PDT144-6C/L451	258	CNY64S	274	EL2631	282
ALS-PDT243-3C/L451	258	CNY65	274	EL2751	286
ALS-PT19-315C/L177/TR8	257	ECD04Tx20F/TB	249	EL2HK-G	264
APM-16D24-310-DF8/TR8	262	EL0452	279	EL2K-G	271
APM-16D24-U6E-DF8/TR8	262	EL0453	279	EL3010	289
B-CPS2020C1-L992-D-2R	261	EL0500	279	EL3010(P5)	288
B-IRRG1816CW3-L885-TR8	217	EL0501	279	EL3011	289
B-IRRG2020CW4-L885-3T	217	EL0530	280	EL3011(P5)	288
B-PD322006C1/L917/135/3T	226	EL0531	280	EL3012	289
B-PM1914B3/L973-A-3R	261	EL0600	279	EL3012(P5)	288
BR15-22C/L586/R/TR8	218	EL0601	279	EL3020	289
CE08320EH(TA)-G	300	EL0611	279	EL3021	289
CE08320EL(TA)-G	300	EL0631	280	EL3021(P5)	288
CE08320MH(TA)-G	300	EL0700	280	EL3022	289
CE08320ML(TA)-G	300	EL0701	280	EL3022(P5)	288
CE08321EH(TA)-G	300	EL083L	280	EL3023	289
CE08321MH(TA)-G	300	EL1010-G	268	EL3023(P5)	288
CE08322EH(TA)-G	300	EL1010H-G	268	EL3031	289
CE08322EL(TA)-G	300	EL1010-TG	268	EL3031(P5)	288
CE08322MH(TA)-G	300	EL1012-G	268	EL3032	289
CE08322ML(TA)-G	300	EL1012-TG	268	EL3032(P5)	288
CE21550A	303	EL1013-G	268	EL3033	289
CE21550B	303	EL1013-TG	268	EL3033(P5)	288
CE8322EH(TA)-G	301	EL1014-G	268	EL3041	289
CE8322EL(TA)-G	301	EL1014-TG	268	EL3041(P5)	288
CE8322MH(TA)-G	301	EL1017-G	268	EL3042	289
CE8322ML(TA)-G	301	EL1017-TG	268	EL3042(P5)	288
CE8640EL(TA)-G	301	EL1018-G	268	EL3043	289
CE8640ML(TA)-G	301	EL1018-TG	268	EL3043(P5)	288
CE8641EH(TA)-G	301	EL1019-G	268	EL3051	289
CE8641MH(TA)-G	301	EL1019-TG	268	EL3051(P5)	288
CE8642EH(TA)-G	301	EL101L-G	268	EL3052	289
CE8642EL(TA)-G	301	EL101U-G	268	EL3052(P5)	288

INFRARED LED, SENSORS, COUPLERS, DIGITAL ISOLATOR

EL3053	289	EL815-G	276	ELQ3H5-G	275
EL3053(P5)	288	EL816-G	270	ELQ3H7-G	264
EL3061	289	EL817-G	270	ELR0213	291
EL3061(P5)	288	EL817H-G	270	ELR0223	291
EL3062	289	EL817L-G	270	ELR1213	291
EL3062(P5)	288	EL825	277	ELR1223	291
EL3063	289	EL827	273	ELR2213	291
EL3063(P5)	288	EL840A	294	ELR2223	291
EL3071	289	EL847	273	ELR3213	291
EL3071(P5)	288	EL851-G	270	ELR3223	291
EL3072	289	EL852-G	276	ELS3120	295
EL3072(P5)	288	EL860A	294	ELS3121	295
EL3073	289	ELC101-G	268	ELS3150	295
EL3073(P5)	288	ELC357N-G	265	ELS3151	295
EL3081	289	ELC3H7-G	263	ELS456	285
EL3081(P5)	288	ELC816-G	270	ELS511	285
EL3082	289	ELD205	267	ELS611	285
EL3082(P5)	288	ELD206	267	ELS680	285
EL3083	289	ELD207	267	ELT3021	287
EL3083(P5)	288	ELD211	267	ELT3022	287
EL3120	295	ELD213	267	ELT3023	287
EL3121	295	ELD217	267	ELT3041	287
EL3150	295	ELH3170	297	ELT3042	287
EL3151	295	ELH61A	286	ELT3043	287
EL354N-G	265	ELK7840	299	ELT3051	287
EL357N-G	265	ELL200	298	ELT3052	287
EL357NH-G	265	ELL300	298	ELT3053	287
EL357NL-G	265	ELM2K-G	266	ELT3061	287
EL357NU-G	265	ELM2KL-G	269	ELT3062	287
EL3H4-G	263	ELM3022	290	ELT3063	287
EL3H4U-G	263	ELM3023	290	ELT3081	287
EL3H5-G	275	ELM3024	290	ELT3082	287
EL3H7-G	263	ELM3042	290	ELT3083	287
EL3H7H-G	263	ELM3043	290	ELW135	283
EL3H7L-G	263	ELM3044	290	ELW136	283
EL3H7U-G	263	ELM3052	290	ELW137	284
EL406A	293	ELM3053	290	ELW2601	284
EL425A	293	ELM3054	290	ELW2611	284
EL440A	293	ELM3062	290	ELW3120	296
EL4502	281	ELM3063	290	ELW3121	296
EL4503	281	ELM3064	290	ELW3150	296
EL4504	281	ELM3082	290	ELW3151	296
EL452-G	276	ELM3083	290	ELW4503	283
EL460A	293	ELM3084	290	ELW4506	284
EL5720	296	ELM440A	292	EV101U-G	268
EL5721	296	ELM452	278	EV16150A	294
EL5750	296	ELM453	278	EV357NU-G	265
EL5751	296	ELM453H	278	EV3H4U-G	263
EL5770	296	ELM456	278	EV3H7U-G	263
EL5771	296	ELM460A	292	EV6150A	293
EL603A5	293	ELM600	278	H11A1	272
EL606A	293	ELM601	278	H11A2	272
EL606A3	293	ELM611	278	H11A3	272
EL6150A	293	ELM611H	278	H11A4	272
EL625A	293	ELM61A	279	H11A5	272
EL640A	293	ELM680	279	H11AA1	271
EL660A	293	ELM684	279	H11AA2	271
EL6880	286	ELM81L	279	H11AA3	271
EL7840	299	ELM840A	292	H11AA4	271
EL814-G	270	ELQ3H4-G	264	H11B1	277

ALPHANUMERIC INDEX

INFRARED LED, SENSORS, COUPLERS, DIGITAL ISOLATOR

H11B2	277	IR16-213C/L510/TR8	210	IRM-36xxJ18	241
H11B3	277	IR17-21C/TR8	211	IRM-36xxJ19	241
H11L1	278	IR19-21C/TR8	210	IRM-36xxJ22	241
H11L2	278	IR19-315C/TR8	211	IRM-36xxJF	241
H11L3	278	IR204/H16/L10	208	IRM-36xxM13	241
HC-HIR282017C2/L913-060/08T	222	IR204/H60	208	IRM-77xxJ15	242
HC-HIR383815C1/L933-150/08T	221	IR204-A	208	IRM-77xxJ16	242
HC-HIR383815C1/L947-150/08T	221	IR204C/H16/L10	208	IRM-77xxJ18	242
HC-HIR383815C2/L949-150/08T	221	IR204C-A	208	IRM-H200JW2	243
HC-HIR383822C1/L933-120/08T	221	IR25-21C/TR8	214	IRM-H2xxJ14	243
HC-HIR383822C1/L933-8012/08T	222	IR26-21C/L110/TR8	214	IRM-H2xxJ15	243
HC-HIR383823C1/L933-050/06T	221	IR26-21C/L447/CT	214	IRM-H2xxJ16	243
HC-HIR383823C1/L933-080/08T	221	IR26-51C/L110/TR8	215	IRM-H3xxJ14	245
HC-HIR383823C1/L933-090/08T	221	IR26-51C/L510/TR8	215	IRM-H3xxJ15	245
HC-IR282017C2/L873-060/08T	222	IR26-61C/L510/R/2G	213	IRM-H3xxJ16	245
HC-IR383815C1/L743-150/08T	221	IR26-61C/L745/TR8	213	IRM-H5xxJ14	244
HC-IR383822C1/L743-120/08T	221	IR26-61C/L746/R/TR8	209	IRM-H5xxJ15	244
HC-IR383822C2/L741-120/08T	221	IR26-61C/L746/R/TR8	213	IRM-H5xxJ16	244
HC-IR383823C2/L741-090/08T	221	IR26-71C/L447/S63/TR8	212	IRM-H6xxJ14	245
HC-IR383823C2/L741-150/08T	221	IR26-91C/2D	212	IRM-H6xxJ15	245
HC-IR383827C2/L741-050/06T	221	IR26-91C/L510/2D	212	IRM-H6xxJ16	245
HC-IR383827C2/L941-050/06T	221	IR29-01C/L510/R/TR8	213	IRM-H6xxJ22	245
HC-IR383828C2/L741-060/06T	221	IR323	206	IRM-H6xxJF	245
HIR11-21C/L11/TR8	213	IR323/H0-A	206	IRM-H8xxJ14	246
HIR12-21C/TR8	212	IR333/H0	206	IRM-H8xxJ15	246
HIR15-21C/TR8	214	IR333/H0/L10	206	IRM-H8xxJ16	246
HIR16-213C/L423/TR8	210	IR333-A	206	IRM-H8xxJ18	246
HIR17-215C/L289/TR8	211	IR333C	206	IRM-H8xxM13	246
HIR17-21C/L289/TR8	211	IR333C/H0/L10	206	IRM-H9xxJ14	243
HIR19-21C/L11/TR8	210	IR333C/H2	206	IRM-H9xxJ15	243
HIR19-21C/L289/TR8	210	IR3494-30C/H80/L419	208	IRM-H9xxJ16	243
HIR19-315C/L825/TR8	211	IR383	207	IRM-HQxxJ16	247
HIR204C	208	IR42-21C/TR8	215	IRM-HQxxJ18	247
HIR204C/H0	208	IR533C	207	IRM-V11xxJ16	247
HIR234C	208	IR57-21C/L491/TR8	216	IRM-V11xxJ18	247
HIR25-21C/L289/2T	214	IR67-21C/TR8	216	IRM-V16xxJ15	247
HIR25-21C/L423/TR8	214	IR67-41C/L491/TR8	217	IRM-V16xxJ16	247
HIR26-21C/L289/TR8	214	IR7373C	206	IRM-V16xxJ18	247
HIR26-21C/L423/TR8	214	IR7393C	207	IRM-V5xxJ14	244
HIR26-51C/L423/TR8	215	IR83-01C/2H	210	IRM-V5xxJ15	244
HIR323C	206	IR8353-14C	207	IRM-V5xxJ16	244
HIR323C/H0	206	IR89-01C/L447/1R	216	IRM-V800JW2	246
HIR333/H0	206	IR908-7C-F	219	IRM-V8xxJ14	246
HIR333C/H0	206	IR91-01C/L491/2R	215	IRM-V8xxJ15	246
HIR333C/L212	207	IR91-21C	209	IRM-V8xxJ16	246
HIR42-21C/L289/TR8	215	IR91-21C/TR10	209	IRM-V8xxM13	246
HIR57-21C/TR8	216	IR91-21C/TR7	209	IRR15-22C/L491/TR8	218
HIR67-21C/L11/TR8	216	IR928-6C-F	219	IRR60-48C/L661/TR8	218
HIR67-31JC/L638/TR8	217	IR95-21C/L491/TR10	209	IRR60-48C/TR8	218
HIR7373C	206	IR95-21C/TR7	209	IRRG25-16C/L491/TR8	217
HIR7393C	207	IR95-21C/TR9	209	IR-S06-P120/L741-P03/TR	220
HIR83-01B/TR8	210	IR968-8C	219	ITR1204SR10A/TR	253
HIR89-01C-1R	216	IRM-35xxJ14	241	ITR1502SR40A/TR8	253
HIR-C19D-1N150/L649-P03/TR	220	IRM-35xxJ15	241	ITR1601CT50A/TB	249
HIR-C19D-1N40-L649-P03-TR-AM	220	IRM-35xxJ16	241	ITR20001/T	255
HIR-C19D-1N90/L649-P03/TR	220	IRM-35xxJ18	241	ITR20002	255
IR11-21C/L491/TR8	213	IRM-3600JW2	241	ITR2001SR10A/TR	253
IR11-21C/TR8	213	IRM-36xxJ14	241	ITR2006ST30A/TR	250
IR12-21C/TR8	212	IRM-36xxJ15	241	ITR20403	250
IR15-21C/TR8	214	IRM-36xxJ16	241	ITR2153DT20A/TB	249

INFRARED LED, SENSORS, COUPLERS, DIGITAL ISOLATOR

ITR2253DT40A/TB	251	PT26-71B/TR8	239	
ITR8102	250	PT28-21B	235	
ITR8104	251	PT333-3B	233	
ITR8307/F43	254	PT333-3C	232	
ITR8307/L24/F43	254	PT334-6B	233	
ITR8307/L24/TR8	254	PT334-6C	233	
ITR8307/S17/TR8	254	PT42-21B/TR8	239	
ITR8307/S18/TR8	254	PT534-6B	234	
ITR8402-F-A	252	PT57-21B/TR8	240	
ITR9606-F	251	PT67-21C/L41/TR8	240	
ITR9707	252	PT908-7B-F	231	
ITR9909	255	PT908-7C-F	231	
PD12-21B/TR8	228	PT91-21B/L369/TR10	235	
PD15-21C/TR8	228	PT928-6B-F	231	
PD15-22C/TR8	229	PT928-6C-F	231	
PD204-6B	224	PT95-21C/TR7	235	
PD204-6B/L3	224	SIR12-21C/TR8	212	
PD204-6C	224	SIR19-21C/TR8	210	
PD204-6C/L3	224	SIR19-315/TR8	211	
PD26-71B/S63/TR8	228	SIR204-A	208	
PD28-01B/L609/2C	230	SIR204C	208	
PD333-3B/H0/L2	225	SIR234	208	
PD333-3B/L1	225	SIR323-5	206	
PD333-3B/L2	225	SIR333-A	206	
PD333-3B/L3	225	SIR383C	207	
PD333-3B/L4	225	SIR57-21C/L294/TR8	216	
PD333-3C/H0/L2	225	SIR67-21C/TR8	216	
PD333-3C/H0/L811	225	SIR91-21C/TR10	209	
PD333-3C/L793	225	SIR91-21C/TR7	209	
PD42-21C/TR8	229	SIR95-21C/TR10	209	
PD438B	223	TIL113	277	
PD438B/S46	223			
PD438C	223			
PD438C/S46	223			
PD44-37C-L753-TR8	226			
PD638B	223			
PD67-21B/TR8	230			
PD70-01B/TR7	227			
PD83-01B/L458/2H	227			
PD91-21B/TR9	227			
PD95-21B/TR10	226			
PLR137	248			
PLR237	248			
PLT137	248			
PLT237	248			
PT11-21C/L41/TR8	237			
PT12-21C/TR8	237			
PT1504-6B	234			
PT15-21B/TR8	238			
PT17-21C/L41/TR8	236			
PT19-21C/L41/TR8	236			
PT19-315C/TR8	236			
PT204-6B	232			
PT204-6C	232			
PT23-21B/TR8	238			
PT2559B/L2/H2-F	231			
PT2559B/L2-F	231			
PT26-21C/TR8	238			
PT26-51B/T/TR8	239			
PT26-61B/TR8	237			

CONDITIONS OF RoHS

From July 1st, 2006, RoHS requires that all electrical equipment should not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs) or poly brominated diphenyl ethers (PBDEs), and the elements are restricted to certain amount (such as mercury in a wound lighting tube <5 mg, lead in CRT glass, soldering tin, etc.). Before the date every member of European Union must obey of environment on chemical regulation.



- According to RoHS part, the norm of restrict and limit used substance adopted by EVERLIGHT.

Name	Description	Criteria
Cadmium	Cadmium and its compounds must not be present in parts, components, materials or products. Cadmium and its compounds must not used as stabilizers, coloring agent or as a surface coating treatment in parts, components, materials or products.	< 5 ppm (Plastics) < 75 ppm (Metals)
Lead restrictions	Lead and/or lead compounds shall not be present in hardware components or parts, however, except solder, electrical components and interconnect materials. Lead carbonates and sulfates must not be used in any paint applied to parts, component, or products.	< 100 ppm (Plastics) < 1000 ppm (Others)
Mercury restrictions	Mercury must not be contained in any part, material, components or product, including, but not limited to switches, relays or electrical contacts. This restriction does not apply to lamps with less than 10 mg if mercury.	< 5 ppm
Hexavalent chromium (chromium VI) and hexavalent chromium compounds	Hexavalent chromium (chromium VI) and hexavalent chromium compounds must not be present in parts, components, materials or products.	< 2 ppm
Polybrominated Biphenyls (PBBs)	Plastics parts, pomponents, materials and products must not contain Polybrominated Biphenyls as flame retardants, specific PBBs, but are not limited to those listed in attachment item.	< 5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	Plastic parts, components, materials and products must not contain Polybrominated Biphenyl Ethers, known as flame retardants, specific PBBEs, including, but are not limited to, those listed in attachment item.	< 5 ppm

Compliant with the following condition :

- Please visit EVERLIGHT website for more updated information about third party test reports and RoHS declarations.
(www.everlight.com)

APPLICATION NOTICE

Since we are continuously improving all of our products, the information listed in this Catalogue, which includes specifications, characteristics, data, materials used, structure, etc., are subject to change without prior notice. It is necessary that you request the newest specification sheet from EVERLIGHT when you place any inquiry or purchase order.

Please carefully read the specification sheet, and confirm your acceptance of the content. EVERLIGHT does not accept any liabilities for damages occurred due to the customer's lack of confirming the newest product specification.

It is important to strictly follow the maximum limit and other important instructions listed on the specifications sheet when using EVERLIGHT's products. The following is a list of special notes for products used in specific applications. It is recommended that customers read the instructions carefully before installing the products. Again, EVERLIGHT does not accept any liabilities for any improper use of EVERLIGHT's product or failure to follow the instructions listed herein:

Special Instruction:

1. Products listed in this Catalogue are designed primarily for the application listed below:
A : Calculators
B : Measurement equipment
C : AV machines
D : QA machines
E : Operating machines
F : Consumer electronics
G : Telecommunications

While products meet the application listed above, additional attention is required when products are to be utilized in the instruments listed under Special Instruction Notes 2 and 3.

2. When high reliability and safety concerns are required, it is very important that the design be made to focus on safety and long term reliability. Special care should be given to assure that EVERLIGHT's products integrate and function properly with all other parts of the instrument. Instruments fall into these categories include:

- A : Instruments attached to transportation tools
(aircraft, train, automobile)
- B : Traffic signs
- C : Gas leaking detectors and gas shutters
- D : Fire detectors
- E : Other safety detectors

3. When extremely high reliability and safety concerns are required, it is necessary that you contact EVERLIGHT for additional information before use. Instruments fall into these categories include:

- A : Aerospace instruments
- B : Telecommunication tools (main line)
- C : Nuclear weapon controls
- D : Medical instruments

4. Should you have any additional questions, please contact EVERLIGHT for details.

本資料所記載之製品的規格、特性、**DATA**、使用原料、構造...等，有時為了改良製品，無法事前通知，而逕行與予變更。因此請務必使用最新的規格書，並請針對內容加以確認。若因未確認規格書，導致使用次製品之機器或其他應用產品發生瑕疵時，敝公司將不負此責任。

使用本資料所記載之製品時，請遵守規格書所記載之絕對最大定格，使用上之注意事項，以及下列之注意點，若因不遵守規格書所記載之絕對最大定格，使用上之注意事項，以及下述之注意點，而導致發生損害問題時，敝公司將不負此責任。

注意項目：

1. 本資料所記載之製品，原則是為了下述之用途而製造出來的產品
A: 電算機
B: OA機器
C: 通信機器
D: 計測機器
E: 工作機器
F: AV機器
G: 家電製品

若雖合乎上述用途，但是屬於下述2或3所記載之機器時，則需遵守個別產品之使用注意事項。

2. 若本資料所記載之製品用於下述講求高信賴性與安全性之用途時，因牽涉到機能與精度方面，為了維持這類機器的信賴性與安全性，請務必注重安全設計與長期性設計，並且需考慮整體機構間的關係，依機器整體之安全設計來使用。
A: 運送機器(飛機、火車、汽車)與控制安全性等相關之產品
B: 交通信號機
C: 瓦斯漏氣檢測關閉機
D: 防災裝置
E: 各種安全裝置

3. 若本資料所記載之製品用於下述講求高信賴性與安全性之用途時，因牽涉到機能與精度方面，請事先與敝公司聯絡。
A: 太空機器(航太儀器)
B: 通信機器(幹線)
C: 原子彈控制機器
D: 醫療機器

4. 涉及上述注意事項之任何一項時，如有疑問，請和敝公司業務人員聯絡。

TECHNICAL DATA

HIGH POWER LED (SHWO, SHWO(N))

CIE BINNING RANKS

Cool-White Bin Coordinates

5000K				
Bin	50K-1	50K-2	50K-3	50K-4
CIE X	0.346	0.338	0.337	0.345
	0.345	0.337	0.337	0.344
	0.353	0.345	0.344	0.352
	0.355	0.346	0.345	0.353
CIE Y	0.369	0.362	0.349	0.356
	0.356	0.349	0.337	0.343
	0.362	0.356	0.343	0.349
	0.376	0.369	0.356	0.362

5700K				
Bin	57K-1	57K-2	57K-3	57K-4
CIE X	0.329	0.321	0.321	0.329
	0.329	0.321	0.322	0.329
	0.337	0.329	0.329	0.337
	0.338	0.329	0.329	0.337
CIE Y	0.354	0.346	0.335	0.342
	0.342	0.335	0.324	0.331
	0.349	0.342	0.331	0.337
	0.362	0.354	0.342	0.349

6500K				
Bin	65K-1	65K-2	65K-3	65K-4
CIE X	0.312	0.303	0.305	0.313
	0.313	0.305	0.307	0.315
	0.321	0.313	0.315	0.322
	0.321	0.312	0.313	0.321
CIE Y	0.339	0.330	0.321	0.329
	0.329	0.321	0.311	0.319
	0.337	0.329	0.319	0.326
	0.348	0.339	0.329	0.337

Warm-White Bin Coordinates

2700K				
Bin	27K-1	27K-2	27K-3	27K-4
CIE X	0.469	0.456	0.447	0.459
	0.459	0.447	0.437	0.448
	0.470	0.459	0.448	0.459
	0.481	0.469	0.459	0.470
CIE Y	0.429	0.426	0.408	0.410
	0.410	0.408	0.389	0.392
	0.413	0.410	0.392	0.394
	0.432	0.429	0.410	0.413

3000K				
Bin	30K-1	30K-2	30K-3	30K-4
CIE X	0.443	0.430	0.422	0.435
	0.435	0.422	0.415	0.426
	0.447	0.435	0.426	0.437
	0.456	0.443	0.435	0.447
CIE Y	0.421	0.417	0.399	0.403
	0.403	0.399	0.381	0.385
	0.408	0.403	0.385	0.389
	0.426	0.421	0.403	0.408

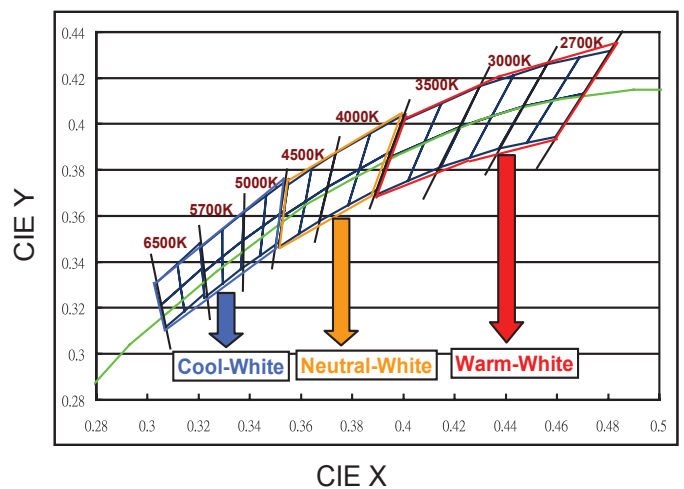
3500K				
Bin	35K-1	35K-2	35K-3	35K-4
CIE X	0.415	0.400	0.394	0.408
	0.408	0.394	0.389	0.402
	0.422	0.408	0.402	0.415
	0.430	0.415	0.408	0.422
CIE Y	0.409	0.402	0.385	0.392
	0.392	0.385	0.369	0.375
	0.399	0.392	0.375	0.381
	0.417	0.409	0.392	0.399

Natural-White Bin Coordinates

4000K				
Bin	40K-1	40K-2	40K-3	40K-4
CIE X	0.387	0.374	0.370	0.383
	0.383	0.370	0.367	0.378
	0.395	0.383	0.378	0.390
	0.401	0.387	0.383	0.395
CIE Y	0.396	0.387	0.373	0.380
	0.380	0.373	0.358	0.365
	0.388	0.380	0.365	0.372
	0.404	0.396	0.380	0.388

4500K				
Bin	45K-1	45K-2	45K-3	45K-4
CIE X	0.364	0.355	0.353	0.362
	0.362	0.353	0.351	0.359
	0.370	0.362	0.359	0.367
	0.374	0.364	0.362	0.370
CIE Y	0.381	0.374	0.360	0.366
	0.366	0.360	0.347	0.352
	0.373	0.366	0.352	0.358
	0.387	0.381	0.366	0.373

White Color Bin Structure



Chromaticity specification defined by ANSI

TECHNICAL DATA

HIGH POWER LED (SHWO ,SHWO(N))

BRIGHTNESS BINNING RANKS

Shwo
Brightness (lm)
Luminous Flux Bins

Group	Binning	Minimum Photometric Flux (lm)	Maximum Photometric Flux (lm)
E	1	4	5
	2	5	6
	3	6	8
	4	8	10
	5	10	13
	6	13	17
	7	17	20
	8	20	23
	9	23	27
F	1	27	33
	2	33	39
	3	39	45
	4	45	52
	5	52	60
	6	60	70
	7	70	80
	8	80	90
	9	90	100
J	1	100	110
	2	110	120
	3	120	130
	4	130	140
	5	140	150
	6	150	160
	7	160	180
	8	180	200
	9	200	225
K	1	225	250
	2	250	275
	3	275	300
	4	300	325
	5	325	350
	6	350	375
	7	375	400
	8	400	425
	9	425	450
N	1	450	475
	2	475	500
	3	500	525
	4	525	550

Shwo
Wavelength (nm)

Group	Binning	Minimum Dominant	Maximum Dominant
		Wavelength (nm)	Wavelength (nm)
B Blue/ Royal- Blue	1	430	435
	2	435	440
	3	440	445
	4	445	450
	5	450	455
	6	455	460
	7	460	465
	8	465	470
G Green	1	520	525
	2	525	530
	3	530	535
	4	535	540
	5	540	545
	6	545	550
A Amber	1	580	582.5
	2	582.5	585
	3	585	587.5
	4	587.5	590
	5	590	592.5
	6	592.5	595
R Red	3	610	615
	4	615	620
	5	620	625
	6	625	630
	7	630	635
	1	635	640
D Deep- Red	2	640	645
	3	645	650
	4	650	655
	5	655	660
	6	660	665
	7	665	670
	8	670	675
F Far- Red	1	700	710
	2	710	715
	3	715	720
	4	720	725
	5	725	730
	6	730	735
	7	735	740
	8	740	745

HIGH POWER LED (SHWO, SHWO(N))

FORWARD VOLTAGE BINNING RANKS

Shwo

Forward Voltage Bins

Group Name	Bins		
A	U1+U2+U3		
B	U2+U3+U4		
C	V1+V2+V3		
D	V2+V3+V4		
E	V3+V4+V5		
F	V1+V2		
G	V1		
Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)	
U1	1.75	2.05	
U2	2.05	2.35	
U3	2.35	2.65	
U4	2.65	2.95	
V1	2.95	3.25	
V2	3.25	3.55	
V3	3.55	3.85	
V4	3.85	4.15	
V5	4.15	4.45	

TECHNICAL DATA

For Lighting Application Only

LOW MIDDLE POWER LED - SMD TYPE CIE BINNING RANKS

Cool-White Bin Coordinates

5000K						
Bin	A	B	C	D	F	G
CIE X	0.3551	0.3464	0.3371	0.3533	0.3487	0.3482
	0.3464	0.3376	0.3366	0.3482	0.3425	0.3422
	0.3456	0.3371	0.3441	0.3477	0.3422	0.3418
	0.3487	0.3422	0.3448	0.3448	0.3482	0.3477
	0.3482	0.3425	0.3418	0.3441	--	--
CIE Y	0.3533	0.3456	0.3422	0.3515	--	--
	0.3760	0.3688	0.3493	0.3624	0.3629	0.3583
	0.3688	0.3616	0.3369	0.3583	0.3579	0.3533
	0.3604	0.3493	0.3428	0.3530	0.3533	0.3483
	0.3629	0.3533	0.3507	0.3507	0.3583	0.3530
	0.3583	0.3579	0.3483	0.3428	--	--
	0.3624	0.3604	0.3533	0.3487	--	--
5700K						
Bin	A	B	C	D	F	G
CIE X	0.3376	0.3292	0.3215	0.3371	0.3321	0.3321
	0.3292	0.3207	0.3222	0.3321	0.3261	0.3262
	0.3292	0.3215	0.3294	0.3320	0.3262	0.3263
	0.3321	0.3262	0.3293	0.3293	0.3321	0.3320
	0.3321	0.3261	0.3263	0.3294	--	--
CIE Y	0.3371	0.3292	0.3262	0.3366	--	--
	0.3616	0.3539	0.3353	0.3493	0.3490	0.3447
	0.3539	0.3462	0.3243	0.3447	0.3436	0.3395
	0.3464	0.3353	0.3306	0.3401	0.3395	0.3350
	0.3490	0.3395	0.3377	0.3377	0.3447	0.3401
	0.3447	0.3436	0.3350	0.3306	--	--
	0.3493	0.3464	0.3395	0.3369	--	--
6500K						
Bin	A	B	C	D	F	G
CIE X	0.3205	0.3117	0.3048	0.3213	0.3157	0.3161
	0.3117	0.3028	0.3068	0.3161	0.3093	0.3100
	0.3125	0.3048	0.3145	0.3166	0.3100	0.3106
	0.3157	0.3100	0.3136	0.3136	0.3161	0.3166
	0.3161	0.3093	0.3106	0.3145	--	--
CIE Y	0.3213	0.3125	0.3100	0.3221	--	--
	0.3481	0.3393	0.3209	0.3371	0.3360	0.3320
	0.3393	0.3304	0.3113	0.3320	0.3297	0.3259
	0.3328	0.3209	0.3187	0.3281	0.3259	0.3222
	0.3360	0.3259	0.3251	0.3251	0.3320	0.3281
	0.3320	0.3297	0.3222	0.3187	--	--
	0.3371	0.3328	0.3259	0.3261	--	--

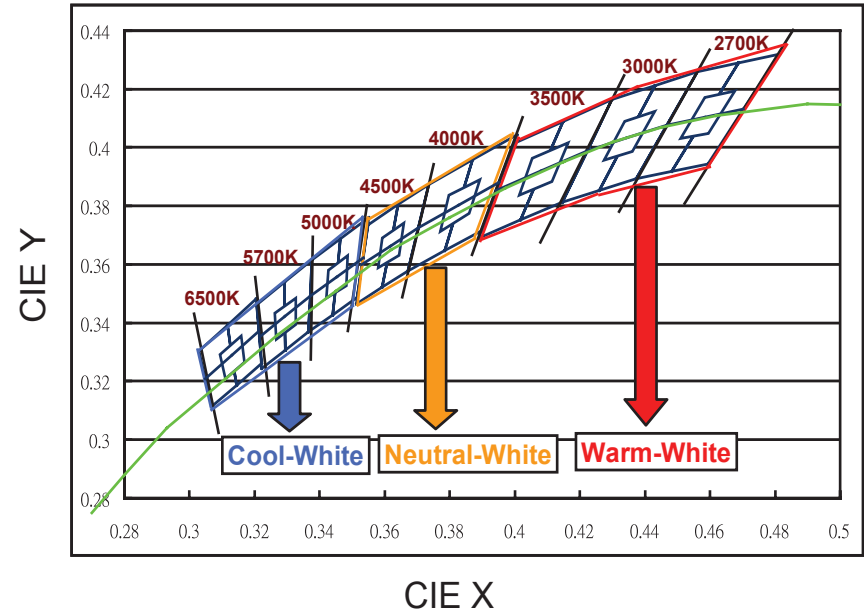
Natural-White Bin Coordinates

4000K						
Bin	A	B	C	D	F	G
CIE X	0.4006	0.3871	0.3703	0.3952	0.3890	0.3873
	0.3871	0.3736	0.3670	0.3873	0.3793	0.3779
	0.3843	0.3703	0.3784	0.3854	0.3779	0.3764
	0.3890	0.3779	0.3810	0.3810	0.3873	0.3854
	0.3873	0.3793	0.3764	0.3784	--	--
CIE Y	0.3952	0.3843	0.3779	0.3898	--	--
	0.4044	0.3959	0.3726	0.3880	0.3887	0.3831
	0.3959	0.3874	0.3578	0.3831	0.3828	0.3773
	0.3858	0.3726	0.3647	0.3768	0.3773	0.3713
	0.3887	0.3773	0.3741	0.3741	0.3831	0.3768
	0.3831	0.3828	0.3713	0.3647	--	--
	0.3880	0.3858	0.3773	0.3716	--	--
4500K						
Bin	A	B	C	D	F	G
CIE X	0.3736	0.3642	0.3530	0.3703	0.3658	0.3648
	0.3642	0.3548	0.3512	0.3648	0.3592	0.3584
	0.3626	0.3530	0.3591	0.3637	0.3584	0.3575
	0.3658	0.3584	0.3607	0.3607	0.3648	0.3637
	0.3648	0.3592	0.3575	0.3591	--	--
CIE Y	0.3703	0.3626	0.3584	0.3670	--	--
	0.3874	0.3805	0.3601	0.3726	0.3738	0.3686
	0.3805	0.3736	0.3465	0.3686	0.3689	0.3640
	0.3714	0.3601	0.3522	0.3630	0.3640	0.3585
	0.3738	0.3640	0.3608	0.3608	0.3686	0.3630
	0.3686	0.3689	0.3585	0.3522	--	--
	0.3726	0.3714	0.3640	0.3578	--	--

Warm-White Bin Coordinates

2700K						
Bin	A	B	C	D	F	G
CIE X	0.4813	0.4687	0.4465	0.4700	0.4667	0.4627
	0.4687	0.4562	0.4373	0.4627	0.4576	0.4539
	0.4621	0.4465	0.4483	0.4588	0.4539	0.4502
	0.4667	0.4539	0.4544	0.4544	0.4627	0.4588
	0.4627	0.4576	0.4502	0.4483	--	--
CIE Y	0.4700	0.4621	0.4539	0.4593	--	--
	0.4319	0.4289	0.4071	0.4126	0.4180	0.4109
	0.4289	0.4260	0.3893	0.4109	0.4158	0.4088
	0.4169	0.4071	0.3919	0.4041	0.4088	0.4020
	0.4180	0.4088	0.4030	0.4030	0.4109	0.4041
	0.4109	0.4158	0.4020	0.3919	--	--
	0.4126	0.4169	0.4088	0.3944	--	--
3000K						
Bin	A	B	C	D	F	G
CIE X	0.4562	0.4430	0.4221	0.4465	0.4422	0.4388
	0.4430	0.4299	0.4147	0.4388	0.4328	0.4297
	0.4375	0.4221	0.4259	0.4355	0.4297	0.4267
	0.4422	0.4297	0.4311	0.4311	0.4388	0.4355
	0.4388	0.4328	0.4267	0.4259	--	--
CIE Y	0.4465	0.4375	0.4297	0.4373	--	--
	0.4260	0.4212	0.3984	0.4071	0.4113	0.4043
	0.4212	0.4165	0.3814	0.4043	0.4079	0.4011
	0.4096	0.3984	0.3853	0.3977	0.4011	0.3946
	0.4113	0.4011	0.3962	0.3962	0.4043	0.3977
	0.4043	0.4079	0.3946	0.3853	--	--
	0.4071	0.4096	0.4011	0.3893	--	--
3500K						
Bin	A	B	C	D	F	G
CIE X	0.4299	0.4148	0.3943	0.4221	0.4159	0.4134
	0.4148	0.3996	0.3889	0.4134	0.4051	0.4029
	0.4106	0.3943	0.4018	0.4108	0.4029	0.4006
	0.4159	0.4029	0.4057	0.4057	0.4134	0.4108
	0.4134	0.4051	0.4006	0.4018	--	--
CIE Y	0.4221	0.4106	0.4029	0.4147	--	--
	0.4165	0.4090	0.3853	0.3984	0.4007	0.3943
	0.4090	0.4015	0.3690	0.3943	0.3954	0.3893
	0.3981	0.3853	0.3752	0.3878	0.3893	0.3829
	0.4007	0.3893	0.3853	0.3853	0.3943	0.3878
	0.3943	0.3954	0.3829	0.3752	--	--
	0.3984	0.3981	0.3893	0.3814	--	--

■ White Color Bin Structure



Chromaticity specification defined by ANSI

TECHNICAL DATA

For Lighting Application Only

LOW MIDDLE POWER LED - SURFACE MOUNT PLCC TYPE LED BRIGHTNESS BINNING RANKS

Luminous Flux Bins

Unit : lm

Bin code	Range	
	Min.	Max.
D1	0.5	1.0
D2	1.0	1.5
D3	1.5	2.0
D4	2.0	2.5
D5	2.5	3.0
D6	3.0	3.5
D7	3.5	4.0
D8	4.0	4.5
D9	4.5	5.0
BA	5.0	5.5
B1	5.5	6.0
B2	6.0	6.5
B3	6.5	7.0
B4	7.0	7.5
B5	7.5	8.0
B6	8.0	8.5
B7	8.5	9.0
B8	9.0	9.5
B9	9.5	10.0
L1	10.0	11.0
L2	11.0	12.0
L3	12.0	13.0
L4	13.0	14.0
L5	14.0	15.0
L6	15.0	16.0
L7	16.0	17.0
L8	17.0	18.0
L9	18.0	19.0
M3	19.0	21.0
M4	21.0	24.0
N3	24.0	27.0
N4	27.0	33.0
P3	33.0	39.0
P4	39.0	45.0
Q3	45.0	52.0
NB	32.0	36.0
PA	36.0	40.0
PB	40.0	45.0
QA	45.0	50.0
R1	50.0	55.0
R2	55.0	60.0
R3	60.0	65.0
R4	65.0	70.0
R5	70.0	76.0
R6	76.0	83.0
R7	83.0	90.0
R8	90.0	100.0
S1	100.0	110.0
S2	110.0	120.0
S3	120.0	130.0
S4	130.0	140.0
S5	140.0	150.0
S6	150.0	160.0
S7	160.0	170.0

VF Group Bin Code

Unit : V

Forward Voltage Group	Bin	Min.	Max.
B2	B42	35	2.80
		36	2.90
		37	3.00
		38	3.10
		39	3.20
		40	3.30
		41	3.40
	42	3.50	3.60

Forward Voltage Group	Bin	Min.	Max.
5670	5#6	5.6	5.7
	5#7	5.7	5.8
	5#8	5.8	5.9
	5#9	5.9	6.0
	6#0	6.0	6.1
	6#1	6.1	6.2
	6#2	6.2	6.3
	6#3	6.3	6.4
	6#4	6.4	6.5
	6#5	6.5	6.6
	6#6	6.6	6.7
	6#7	6.7	6.8
	6#8	6.8	6.9
	6#9	6.9	7.0

Forward Voltage Group	Bin	Min.	Max.
8499	84C	8.4	8.7
	87C	8.7	9.0
	90C	9.0	9.3
	93C	9.3	9.6
	96C	9.6	9.9

SMD LED : SURFACE MOUNT CHIP LED (PCB TYPE)
BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

	C0: 0.28 ... 0.45	Q ▶	Q1: 72.0 ... 90.0
	D0: 0.45 ... 0.70		Q2: 90.0 ... 112
	E0: 0.70 ... 1.1	R ▶	R1: 112 ... 140
	F0: 1.1 ... 1.8		R2: 140 ... 180
	G0: 1.8 ... 2.8	S ▶	S1: 180 ... 225
	H0: 2.8 ... 4.5		S2: 225 ... 285
	J0: 4.5 ... 7.2	T ▶	T1: 285 ... 360
	K0: 7.2 ... 11.5		T2: 360 ... 450
L ▶	L1: 11.5 ... 14.5	U ▶	U1: 450 ... 565
	L2: 14.5 ... 18.0		U2: 565 ... 715
M ▶	M1: 18.0 ... 22.5		V0: 715 ... 1120
	M2: 22.5 ... 28.5		W0: 1120 ... 1800
N ▶	N1: 28.5 ... 36.0		X0: 1800 ... 2850
	N2: 36.0 ... 45.0		Y0: 2850 ... 4500
P ▶	P1: 45.0 ... 57.0		
	P2: 57.0 ... 72.0		

Note: The luminous intensity data did not include ±15% testing tolerance.

V_F (Forward Voltage Spec. Setup)

Unit : V

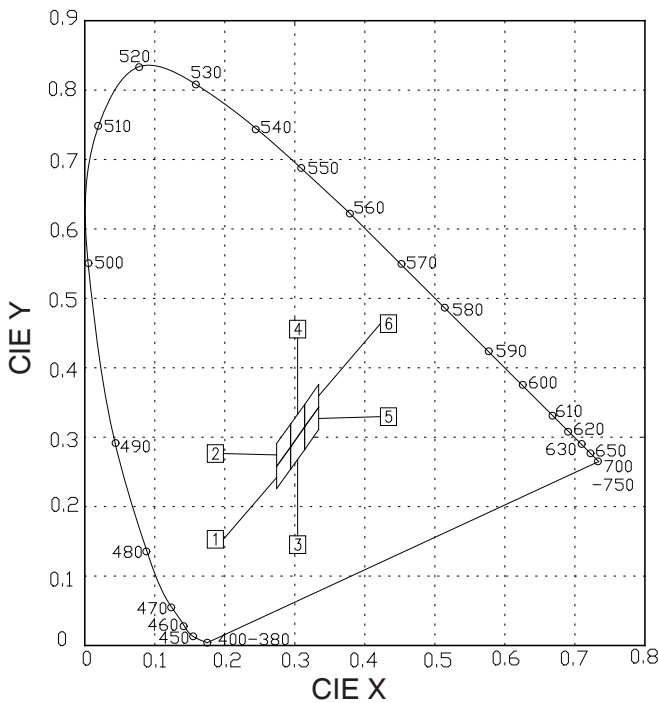
Forward Voltage Groups		Bin	Min.	Max.
		00	1.55	1.75
		0	1.75	1.95
		1	1.95	2.15
		2	2.15	2.35
		3	2.35	2.55
		4	2.55	2.75
		5	2.75	3.05
		6	3.05	3.35
		7	3.35	3.65
		8	3.65	3.95
		10	2.70	2.90
		11	2.90	3.10
		12	3.10	3.30
		13	3.30	3.50
		14	3.50	3.70
		15	2.70	2.85
		16	2.85	3.00
		17	3.00	3.15
		18	3.15	3.30

Note: The forward voltage data did not include ±0.1V testing tolerance.

Bin Coordinate

Group	Bin Code	CIE_X	CIE_Y
A	1	0.274	0.226
		0.274	0.258
		0.294	0.286
		0.294	0.254
	2	0.274	0.258
		0.274	0.291
		0.294	0.319
		0.294	0.286
	3	0.294	0.254
		0.294	0.286
		0.314	0.315
		0.314	0.282
	4	0.294	0.286
		0.294	0.319
		0.314	0.347
		0.314	0.315
	5	0.314	0.282
		0.314	0.315
		0.334	0.343
		0.334	0.311
	6	0.314	0.315
		0.314	0.347
		0.334	0.376
		0.334	0.343

Bin Structure (White Light)



TECHNICAL DATA

For Lighting Application Only

SMD LED : SURFACE MOUNT PLCC LED (REFLECTOR) / LOW POWER LED
BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

Bin Code	Min.	Max.	Bin Code	Min.	Max.
D1	0.5	1.0	NB	32.0	36.0
D2	1.0	1.5	PA	36.0	40.0
D3	1.5	2.0	PB	40.0	45.0
D4	2.0	2.5	QA	45.0	50.0
D5	2.5	3.0	R1	50.0	55.0
D6	3.0	3.5	R2	55.0	60.0
D7	3.5	4.0	R3	60.0	65.0
D8	4.0	4.5	R4	65.0	70.0
D9	4.5	5.0	R5	70.0	76.0
BA	5.0	5.5	R6	76.0	83.0
B1	5.5	6.0	R7	83.0	90.0
B2	6.0	6.5	R8	90.0	100.0
B3	6.5	7.0	S1	100.0	110.0
B4	7.0	7.5	S2	110.0	120.0
B5	7.5	8.0	S3	120.0	130.0
B6	8.0	8.5	S4	130.0	140.0
B7	8.5	9.0	S5	140.0	150.0
B8	9.0	9.5	S6	150.0	160.0
B9	9.5	10.0	S7	160.0	170.0
L1	10.0	11.0	S8	170.0	180.0
L2	11.0	12.0	T1	180.0	190.0
L3	12.0	13.0	T2	190.0	200.0
L4	13.0	14.0	T3	200.0	220.0
L5	14.0	15.0	T4	220.0	240.0
L6	15.0	16.0	T5	240.0	260.0
L7	16.0	17.0	T6	260.0	280.0
L8	17.0	18.0	T7	280.0	300.0
L9	18.0	19.0	T8	300.0	320.0
M3	19.0	21.0			
M4	21.0	24.0			
N3	24.0	27.0			
N4	27.0	33.0			
P3	33.0	39.0			
P4	39.0	45.0			
Q3	45.0	52.0			

V_F (Forward Voltage Spec. Setup)

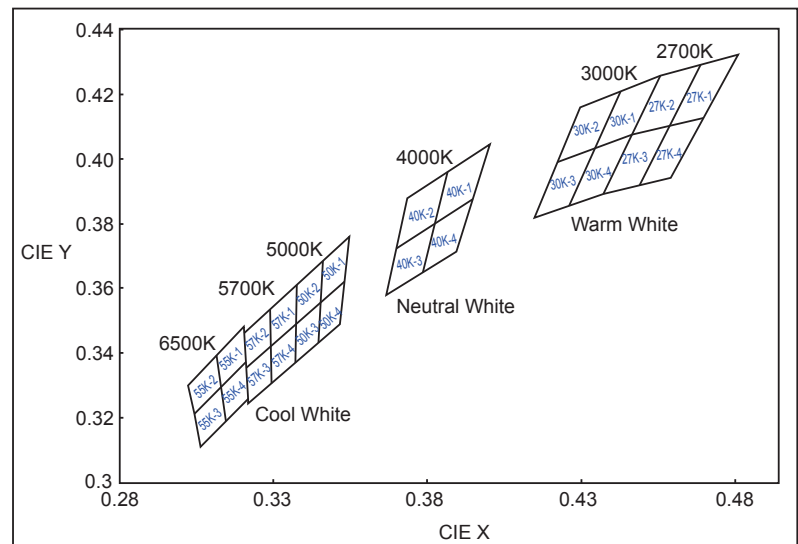
Unit : V (I_F=150mA)

Bin Group	Bin Code	Min.	Max.
B42	B2	35	2.8
		36	2.9
		37	3.0
		38	3.1
		39	3.2
		40	3.3
		41	3.4
		42	3.5

Table of Color Rendering Index

Symbol	Description
M	CRI(Min.) : 60
N	CRI(Min.) : 65
L	CRI(Min.) : 70
Q	CRI(Min.) : 75
K	CRI(Min.) : 80
P	CRI(Min.) : 85
H	CRI(Min.) : 90

Bin Structure



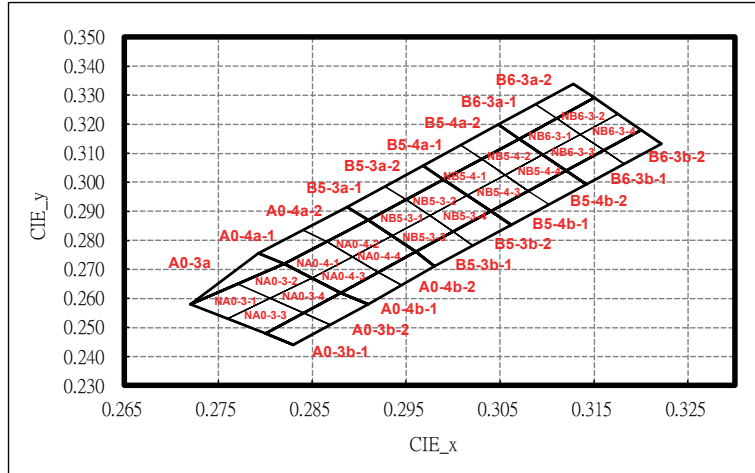
Bin Coordinate

CCT	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y
6500K	65K-1	0.3205	0.3481	65K-3	0.3131	0.3290
		0.3117	0.3393		0.3048	0.3209
		0.3131	0.3290		0.3068	0.3113
		0.3213	0.3371		0.3145	0.3187
	65K-2	0.3117	0.3393	65K-4	0.3213	0.3371
		0.3028	0.3304		0.3131	0.3290
		0.3048	0.3209		0.3145	0.3187
		0.3131	0.3290		0.3221	0.3261
5700K	57K-1	0.3376	0.3616	57K-3	0.3293	0.3423
		0.3292	0.3539		0.3215	0.3353
		0.3293	0.3423		0.3222	0.3243
		0.3371	0.3493		0.3294	0.3306
	57K-2	0.3292	0.3539	57K-4	0.3371	0.3493
		0.3207	0.3462		0.3293	0.3423
		0.3215	0.3353		0.3294	0.3306
		0.3293	0.3423		0.3366	0.3369
5000K	50K-1	0.3551	0.3760	50K-3	0.3452	0.3558
		0.3464	0.3688		0.3371	0.3493
		0.3452	0.3558		0.3366	0.3369
		0.3533	0.3624		0.3441	0.3428
	50K-2	0.3464	0.3688	50K-4	0.3533	0.3624
		0.3376	0.3616		0.3452	0.3558
		0.3371	0.3493		0.3441	0.3428
		0.3452	0.3558		0.3515	0.3487
4000K	40K-1	0.4006	0.4044	40K-3	0.3828	0.3803
		0.3871	0.3959		0.3703	0.3726
		0.3828	0.3803		0.3670	0.3578
		0.3952	0.3880		0.3784	0.3647
	40K-2	0.3871	0.3959	40K-4	0.3952	0.3880
		0.3736	0.3874		0.3828	0.3803
		0.3703	0.3726		0.3784	0.3647
		0.3828	0.3803		0.3898	0.3716
3000K	30K-1	0.4562	0.4260	30K-3	0.4345	0.4033
		0.4431	0.4213		0.4223	0.3990
		0.4345	0.4033		0.4147	0.3814
		0.4468	0.4077		0.4260	0.3854
	30K-2	0.4431	0.4213	30K-4	0.4468	0.4077
		0.4299	0.4165		0.4345	0.4033
		0.4223	0.3990		0.4260	0.3854
		0.4345	0.4033		0.4373	0.3893
2700K	27K-1	0.4813	0.4319	27K-3	0.4585	0.4104
		0.4688	0.4290		0.4468	0.4077
		0.4585	0.4104		0.4373	0.3893
		0.4703	0.4132		0.4483	0.3919
	27K-2	0.4688	0.4290	27K-4	0.4703	0.4132
		0.4562	0.4260		0.4585	0.4104
		0.4468	0.4077		0.4483	0.3919
			0.4104			0.3944

TECHNICAL DATA

SMD LED (99 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y
NA0-3-1	0.2760	0.2530	NA0-3-2	0.2805	0.2600	NA0-4-1	0.2850	0.2670	NA0-4-2	0.2893	0.2743
	0.2720	0.2580		0.2770	0.2650		0.2820	0.2720		0.2865	0.2795
	0.2770	0.2650		0.2820	0.2720		0.2865	0.2795		0.2910	0.2870
	0.2805	0.2600		0.2850	0.2670		0.2893	0.2743		0.2935	0.2815
NA0-3-3	0.2800	0.2480	NA0-3-4	0.2840	0.2550	NA0-4-3	0.2880	0.2620	NA0-4-4	0.2920	0.2690
	0.2760	0.2530		0.2805	0.2600		0.2850	0.2670		0.2893	0.2743
	0.2805	0.2600		0.2850	0.2670		0.2893	0.2743		0.2935	0.2815
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2960	0.2760
A0-3b-1	0.2830	0.2440	A0-3b-2	0.2870	0.2510	A0-4b-1	0.2910	0.2580	A0-4b-2	0.2945	0.2645
	0.2800	0.2480		0.2840	0.2550		0.2880	0.2620		0.2920	0.2690
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2960	0.2760
	0.2870	0.2510		0.2910	0.2580		0.2945	0.2645		0.2980	0.2710
A0-4a-1	0.2820	0.2720	A0-4a-2	0.2865	0.2795	B5-3a-1	0.2910	0.2870	B5-3a-2	0.2950	0.2940
	0.2793	0.2755		0.2840	0.2836		0.2887	0.2916		0.2928	0.2987
	0.2840	0.2836		0.2887	0.2916		0.2928	0.2987		0.2968	0.3058
	0.2865	0.2795		0.2910	0.2870		0.2950	0.2940		0.2990	0.3010
A0-3a	0.2720	0.2580	NB5-3-1	0.2935	0.2815	NB5-3-2	0.2910	0.2870	NB5-3-3	0.2975	0.2885
	0.2793	0.2755		0.2910	0.2870		0.2950	0.2940		0.2990	0.3010
	0.2820	0.2720		0.2975	0.2885		0.2975	0.2885		0.3015	0.2955
	0.2720	0.2580		0.3000	0.2830		0.3062	0.2853		0.3102	0.2923
NB5-3-3	0.2935	0.2815	NB5-3-4	0.2975	0.2885	B5-4b-1	0.3040	0.2900	B5-4b-2	0.3080	0.2970
	0.2975	0.2885		0.3015	0.2955		0.3080	0.2970		0.3120	0.3040
	0.3000	0.2830		0.3040	0.2900		0.3102	0.2923		0.3142	0.2993
	0.2980	0.2710		0.3021	0.2782		0.3070	0.3150		0.3110	0.3220
B5-3b-1	0.2960	0.2760	B5-3b-2	0.3000	0.2830	B6-3a-1	0.3048	0.3198	B6-3a-2	0.3088	0.3268
	0.3000	0.2830		0.3040	0.2900		0.3088	0.3268		0.3128	0.3338
	0.3021	0.2782		0.3062	0.2853		0.3110	0.3220		0.3150	0.3290
	0.2990	0.3010		0.3030	0.3080		0.3095	0.3095		0.3135	0.3165
B5-4a-1	0.2968	0.3058	B5-4a-2	0.3008	0.3128	NB6-3-1	0.3070	0.3150	NB6-3-2	0.3110	0.3220
	0.3008	0.3128		0.3048	0.3198		0.3110	0.3220		0.3150	0.3290
	0.3030	0.3080		0.3070	0.3150		0.3135	0.3165		0.3175	0.3235
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3160	0.3110
NB5-4-1	0.2990	0.3010	NB5-4-2	0.3030	0.3080	NB6-3-3	0.3095	0.3095	NB6-3-4	0.3135	0.3165
	0.3030	0.3080		0.3070	0.3150		0.3135	0.3165		0.3175	0.3235
	0.3055	0.3025		0.3095	0.3095		0.3160	0.3110		0.3200	0.3180
	0.3040	0.2900		0.3080	0.2970		0.3142	0.2993		0.3182	0.3063
NB5-4-3	0.3015	0.2955	NB5-4-4	0.3055	0.3025	B6-3b-1	0.3120	0.3040	B6-3b-2	0.3160	0.3110
	0.3055	0.3025		0.3095	0.3095		0.3160	0.3110		0.3200	0.3180
	0.3080	0.2970		0.3120	0.3040		0.3182	0.3063		0.3222	0.3133

V_F (Forward Voltage Spec. Setup)

Unit : V

Bin	Unit: V	
	Min.	Max.
D26	2.60	2.70
D27	2.70	2.80
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D33	3.30	3.40
D34	3.40	3.50

Note: Tolerance of Forward Voltage: $\pm 0.05V$

Luminous Flux

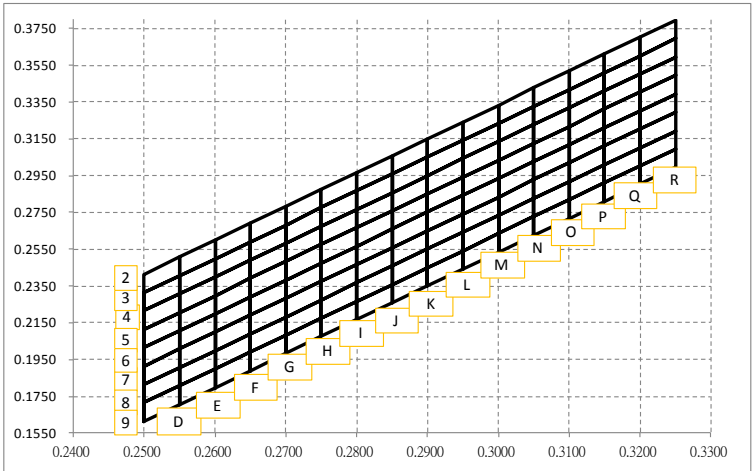
Bin	Unit: lm		Unit: mcd.	
	Min	Max	Min	Max
B45	4.50	4.75	1605	1695
B47	4.75	5.00	1695	1785
B50	5.00	5.25	1785	1875
B52	5.25	5.50	1875	1965
B55	5.50	5.75	1965	2055
B57	5.75	6.00	2055	2145
B60	6.00	6.25	2145	2235
B62	6.25	6.50	2235	2325
B65	6.50	6.75	2325	2415
B67	6.75	7.00	2415	2505
B70	7.00	7.25	2505	2595
B72	7.25	7.50	2595	2685
B75	7.50	7.75	2685	2775
B77	7.75	8.00	2775	2865
B80	8.00	8.25	2865	2955
B82	8.25	8.50	2955	3045
B85	8.50	8.75	3045	3135
B87	8.75	9.00	3135	3225
B90	9.00	9.25	3225	3315
B92	9.25	9.50	3315	3405
B95	9.50	9.75	3405	3495
B97	9.75	10.00	3495	3585

Note: Tolerance of Luminous Flux: $\pm 7\%$.

TECHNICAL DATA

SMD LED (3003,3006 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
D2	0.2500	0.2314	E2	0.2550	0.2406	F2	0.2600	0.2498	G2	0.2650	0.2590	H2	0.2700	0.2682
	0.2500	0.2414		0.2550	0.2506		0.2600	0.2598		0.2650	0.2690		0.2700	0.2782
	0.2550	0.2506		0.2600	0.2598		0.2650	0.2690		0.2700	0.2782		0.2750	0.2874
	0.2550	0.2406		0.2600	0.2498		0.2650	0.2590		0.2700	0.2682		0.2750	0.2774
D3	0.2500	0.2314	E3	0.2550	0.2406	F3	0.2600	0.2498	G3	0.2650	0.2590	H3	0.2700	0.2682
	0.2500	0.2214		0.2550	0.2306		0.2600	0.2398		0.2650	0.2490		0.2700	0.2582
	0.2550	0.2406		0.2600	0.2498		0.2650	0.2590		0.2700	0.2682		0.2750	0.2774
	0.2550	0.2306		0.2600	0.2398		0.2650	0.2490		0.2700	0.2582		0.2750	0.2674
D4	0.2500	0.2214	E4	0.2550	0.2306	F4	0.2600	0.2398	G4	0.2650	0.2490	H4	0.2700	0.2582
	0.2500	0.2114		0.2550	0.2206		0.2600	0.2298		0.2650	0.2390		0.2700	0.2482
	0.2550	0.2306		0.2600	0.2398		0.2650	0.2490		0.2700	0.2582		0.2750	0.2674
	0.2550	0.2206		0.2600	0.2298		0.2650	0.2390		0.2700	0.2482		0.2750	0.2574
D5	0.2500	0.2114	E5	0.2550	0.2206	F5	0.2600	0.2298	G5	0.2650	0.2390	H5	0.2700	0.2482
	0.2500	0.2014		0.2550	0.2106		0.2600	0.2198		0.2650	0.2290		0.2700	0.2382
	0.2550	0.2206		0.2600	0.2298		0.2650	0.2390		0.2700	0.2482		0.2750	0.2574
	0.2550	0.2106		0.2600	0.2198		0.2650	0.2290		0.2700	0.2382		0.2750	0.2474
D6	0.2500	0.2014	E6	0.2550	0.2106	F6	0.2600	0.2198	G6	0.2650	0.2290	H6	0.2700	0.2382
	0.2500	0.1914		0.2550	0.2006		0.2600	0.2098		0.2650	0.2190		0.2700	0.2282
	0.2550	0.2106		0.2600	0.2198		0.2650	0.2290		0.2700	0.2382		0.2750	0.2474
	0.2550	0.2006		0.2600	0.2098		0.2650	0.2190		0.2700	0.2282		0.2750	0.2374
D7	0.2500	0.1814	E7	0.2550	0.2006	F7	0.2600	0.2098	G7	0.2650	0.2190	H7	0.2700	0.2282
	0.2500	0.1714		0.2550	0.1906		0.2600	0.1998		0.2650	0.2090		0.2700	0.2182
	0.2550	0.2006		0.2600	0.2098		0.2650	0.2190		0.2700	0.2282		0.2750	0.2374
	0.2550	0.1906		0.2600	0.1998		0.2650	0.2090		0.2700	0.2182		0.2750	0.2274
D8	0.2500	0.1614	E8	0.2550	0.1806	F8	0.2600	0.1898	G8	0.2650	0.1990	H8	0.2700	0.2082
	0.2500	0.1514		0.2550	0.1706		0.2600	0.1798		0.2650	0.1890		0.2700	0.1982
	0.2550	0.1806		0.2600	0.1998		0.2650	0.2090		0.2700	0.2182		0.2750	0.2274
	0.2550	0.1706		0.2600	0.1898		0.2650	0.1890		0.2700	0.2082		0.2750	0.2174
D9	0.2500	0.1414	E9	0.2550	0.1606	F9	0.2600	0.1598	G9	0.2650	0.1590	H9	0.2700	0.1982
	0.2500	0.1314		0.2550	0.1506		0.2600	0.1498		0.2650	0.1490		0.2700	0.1882
	0.2550	0.1606		0.2600	0.1798		0.2650	0.1890		0.2700	0.2082		0.2750	0.2174
	0.2550	0.1506		0.2600	0.1698		0.2650	0.1790		0.2700	0.1982		0.2750	0.2074

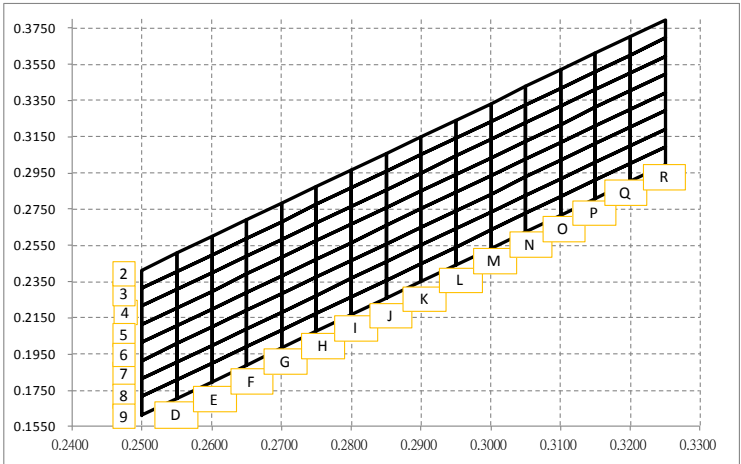
Bin code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
I2	0.2750	0.2774	J2	0.2800	0.2866	K2	0.2850	0.2958	L2	0.2900	0.3050	M2	0.2950	0.3142
	0.2750	0.2874		0.2800	0.2966		0.2850	0.3058		0.2900	0.3150		0.2950	0.3242
	0.2800	0.2966		0.2850	0.3058		0.2900	0.3150		0.2950	0.3242		0.3000	0.3334
	0.2800	0.2866		0.2850	0.2958		0.2900	0.3050		0.2950	0.3142		0.3000	0.3234
I3	0.2750	0.2774	J3	0.2800	0.2866	K3	0.2850	0.2958	L3	0.2900	0.3050	M3	0.2950	0.3142
	0.2750	0.2674		0.2800	0.2766		0.2850	0.2858		0.2900	0.2950		0.2950	0.3042
	0.2800	0.2866		0.2850	0.2958		0.2900	0.3050		0.2950	0.3142		0.3000	0.3234
	0.2800	0.2766		0.2850	0.2858		0.2900	0.2950		0.2950	0.3042		0.3000	0.3134
I4	0.2750	0.2674	J4	0.2800	0.2766	K4	0.2850	0.2858	L4	0.2900	0.2950	M4	0.2950	0.3042
	0.2750	0.2574		0.2800	0.2666		0.2850	0.2758		0.2900	0.2850		0.2950	0.2942
	0.2800	0.2766		0.2850	0.2858		0.2900	0.2950		0.2950	0.3042		0.3000	0.3134
	0.2800	0.2666		0.2850	0.2758		0.2900	0.2850		0.2950	0.2942		0.3000	0.3034
I5	0.2750	0.2574	J5	0.2800	0.2666	K5	0.2850	0.2758	L5	0.2900	0.2850	M5	0.2950	0.2942
	0.2750	0.2474		0.2800	0.2566		0.2850	0.2658		0.2900	0.2750		0.2950	0.2842
	0.2800	0.2666		0.2850	0.2758		0.2900	0.2850		0.2950	0.2942		0.3000	0.3034
	0.2800	0.2566		0.2850	0.2658		0.2900	0.2750		0.2950	0.2842		0.3000	0.2934
I6	0.2750	0.2474	J6	0.2800	0.2566	K6	0.2850	0.2658	L6	0.2900	0.2750	M6	0.2950	0.2842
	0.2750	0.2374		0.2800	0.2466		0.2850	0.2558		0.2900	0.2650		0.2950	0.2742
	0.2800	0.2566		0.2850	0.2658		0.2900	0.2750		0.2950	0.2842		0.3000	0.2934
	0.2800	0.2466		0.2850	0.2558		0.2900	0.2650		0.2950	0.2742		0.3000	0.2834
I7	0.2750	0.2374	J7	0.2800	0.2466	K7	0.2850	0.2558	L7	0.2900	0.2650	M7	0.2950	0.2742
	0.2750	0.2274		0.2800	0.2366		0.2850	0.2458		0.2900	0.2550		0.2950	0.2642
	0.2800	0.2466		0.2850	0.2558		0.2900	0.2650		0.2950	0.2742		0.3000	0.2834
	0.2800	0.2366		0.2850	0.2458		0.2900	0.2550		0.2950	0.2642		0.3000	0.2734
I8	0.2750	0.2274	J8	0.2800	0.2366	K8	0.2850	0.2458	L8	0.2900	0.2550	M8	0.2950	0.2642
	0.2750	0.2174		0.2800	0.2266		0.2850	0.2358		0.2900	0.2450		0.2950	0.2542
	0.2800	0.2466		0.2850	0.2558		0.2900	0.2650		0.2950	0.2742		0.3000	0.2834
	0.2800	0.2366		0.2850	0.2458		0.2900	0.2550		0.2950	0.2642		0.3000	0.2734
I9	0.2750	0.2074	J9	0.2800	0.2166	K9	0.2850	0.2258	L9	0.2900	0.2350	M9	0.2950	0.2442
	0.2750	0.2074		0.2800	0.2166		0.2850	0.2258		0.2900	0.2350		0.2950	0.2442
	0.2800	0.2266		0.2850	0.2358		0.2900	0.2450		0.2950	0.2542		0.3000	0.2634
	0.2800	0.2166		0.2850	0.2258		0.2900	0.2350		0.2950	0.2442		0.3000	0.2534
	0.2750	0.2074		0.2800	0.2166		0.2850	0.2258		0.2900	0.2350		0.2950	0.2442

TECHNICAL DATA

SMD LED (3003,3006 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
N2	0.3000	0.3234	O2	0.3050	0.3326	P2	0.3100	0.3418	Q2	0.3150	0.3510	R2	0.3200	0.3602
	0.3000	0.3334		0.3050	0.3426		0.3100	0.3518		0.3150	0.3610		0.3200	0.3702
	0.3050	0.3426		0.3100	0.3518		0.3150	0.3610		0.3200	0.3702		0.3250	0.3794
	0.3050	0.3326		0.3100	0.3418		0.3150	0.3510		0.3200	0.3602		0.3250	0.3694
N3	0.3000	0.3234	O3	0.3050	0.3326	P3	0.3100	0.3418	Q3	0.3150	0.3510	R3	0.3200	0.3602
	0.3000	0.3134		0.3050	0.3226		0.3100	0.3318		0.3150	0.3410		0.3200	0.3502
	0.3050	0.3326		0.3100	0.3418		0.3150	0.3510		0.3200	0.3602		0.3250	0.3694
	0.3050	0.3226		0.3100	0.3318		0.3150	0.3410		0.3200	0.3502		0.3250	0.3594
N4	0.3000	0.3134	O4	0.3050	0.3226	P4	0.3100	0.3318	Q4	0.3150	0.3410	R4	0.3200	0.3502
	0.3000	0.3034		0.3050	0.3126		0.3100	0.3218		0.3150	0.3310		0.3200	0.3402
	0.3050	0.3226		0.3100	0.3318		0.3150	0.3410		0.3200	0.3502		0.3250	0.3594
	0.3050	0.3126		0.3100	0.3218		0.3150	0.3310		0.3200	0.3402		0.3250	0.3494
N5	0.3000	0.3034	O5	0.3050	0.3126	P5	0.3100	0.3218	Q5	0.3150	0.3310	R5	0.3200	0.3402
	0.3000	0.2934		0.3050	0.3026		0.3100	0.3118		0.3150	0.3210		0.3200	0.3302
	0.3050	0.3126		0.3100	0.3218		0.3150	0.3310		0.3200	0.3402		0.3250	0.3494
	0.3050	0.3026		0.3100	0.3118		0.3150	0.3210		0.3200	0.3302		0.3250	0.3394
N6	0.3000	0.2934	O6	0.3050	0.3026	P6	0.3100	0.3118	Q6	0.3150	0.3210	R6	0.3200	0.3302
	0.3000	0.2834		0.3050	0.2926		0.3100	0.3018		0.3150	0.3110		0.3200	0.3202
	0.3050	0.3026		0.3100	0.3118		0.3150	0.3210		0.3200	0.3302		0.3250	0.3394
	0.3050	0.2926		0.3100	0.3018		0.3150	0.3110		0.3200	0.3202		0.3250	0.3294
N7	0.3000	0.2834	O7	0.3050	0.2926	P7	0.3100	0.3018	Q7	0.3150	0.3110	R7	0.3200	0.3202
	0.3000	0.2734		0.3050	0.2826		0.3100	0.2918		0.3150	0.3010		0.3200	0.3102
	0.3050	0.2926		0.3100	0.3018		0.3150	0.3110		0.3200	0.3202		0.3250	0.3294
	0.3050	0.2826		0.3100	0.2918		0.3150	0.3010		0.3200	0.3102		0.3250	0.3194
N8	0.3000	0.2734	O8	0.3050	0.2826	P8	0.3100	0.2918	Q8	0.3150	0.3010	R8	0.3200	0.3102
	0.3000	0.2634		0.3050	0.2726		0.3100	0.2818		0.3150	0.2910		0.3200	0.3002
	0.3050	0.2826		0.3100	0.2918		0.3150	0.3010		0.3200	0.3102		0.3250	0.3194
	0.3050	0.2726		0.3100	0.2818		0.3150	0.2910		0.3200	0.3002		0.3250	0.3094
N9	0.3000	0.2634	O9	0.3050	0.2726	P9	0.3100	0.2818	Q9	0.3150	0.2910	R9	0.3200	0.3002
	0.3000	0.2534		0.3050	0.2626		0.3100	0.2718		0.3150	0.2810		0.3200	0.2902
	0.3050	0.2726		0.3100	0.2818		0.3150	0.2910		0.3200	0.3002		0.3250	0.3094
	0.3050	0.2626		0.3100	0.2718		0.3150	0.2810		0.3200	0.2902		0.3250	0.2994
	0.3000	0.2534		0.3050	0.2626		0.3100	0.2718		0.3150	0.2810		0.3200	0.2902

Luminous Flux

Bin	Unit: lm		Unit: mcd	
	Min.	Max.	Min.	Max.
B45	4.50	4.75	1605	1695
B47	4.75	5.00	1695	1785
B50	5.00	5.25	1785	1875
B52	5.25	5.50	1875	1965
B55	5.50	5.75	1965	2055
B57	5.75	6.00	2055	2145
B60	6.00	6.25	2145	2235
B62	6.25	6.50	2235	2325
B65	6.50	6.75	2325	2415
B67	6.75	7.00	2415	2505
B70	7.00	7.25	2505	2595
B72	7.25	7.50	2595	2685
B75	7.50	7.75	2685	2775
B77	7.75	8.00	2775	2865
B80	8.00	8.25	2865	2955
B82	8.25	8.50	2955	3045
B85	8.50	8.75	3045	3135
B87	8.75	9.00	3135	3225
B90	9.00	9.25	3225	3315
B92	9.25	9.50	3315	3405
B95	9.50	9.75	3405	3495
B97	9.75	10.00	3495	3585

Note: Tolerance of Luminous Flux: $\pm 7\%$

V_F (Forward Voltage Spec. Setup)

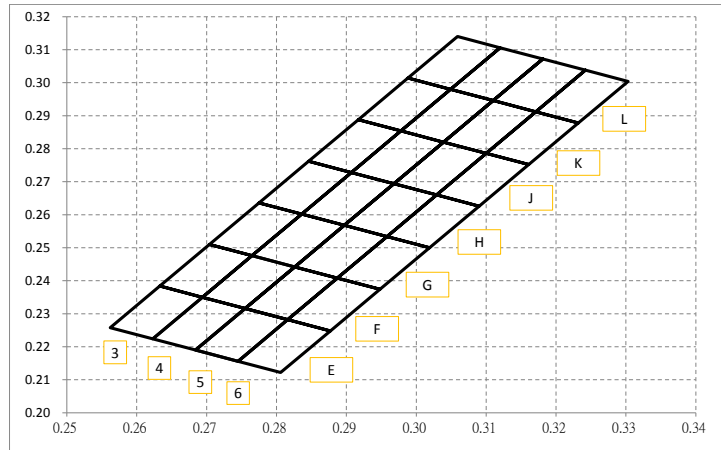
Bin	Unit: V	
	Min.	Max.
D26	2.60	2.70
D27	2.70	2.80
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D33	3.30	3.40
D34	3.40	3.50

Note: Tolerance of Forward Voltage: $\pm 0.05V$.

TECHNICAL DATA

SMD LED (2604/3004 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
E5	0.2755	0.2316	E4	0.2755	0.2316	E3	0.2694	0.2350	E6	0.2816	0.2282
	0.2684	0.2190		0.2684	0.2190		0.2623	0.2224		0.2745	0.2156
	0.2745	0.2156		0.2623	0.2224		0.2562	0.2258		0.2806	0.2122
	0.2816	0.2282		0.2694	0.2350		0.2633	0.2384		0.2877	0.2248
	0.2755	0.2316		0.2755	0.2316		0.2694	0.2350		0.2816	0.2282
F5	0.2826	0.2442	F4	0.2826	0.2442	F3	0.2765	0.2476	F6	0.2887	0.2408
	0.2755	0.2316		0.2755	0.2316		0.2694	0.2350		0.2816	0.2282
	0.2816	0.2282		0.2694	0.2350		0.2633	0.2384		0.2877	0.2248
	0.2887	0.2408		0.2765	0.2476		0.2704	0.2510		0.2948	0.2374
	0.2826	0.2442		0.2826	0.2442		0.2765	0.2476		0.2887	0.2408
G5	0.2897	0.2568	G4	0.2897	0.2568	G3	0.2836	0.2602	G6	0.2958	0.2534
	0.2826	0.2442		0.2826	0.2442		0.2765	0.2476		0.2887	0.2408
	0.2887	0.2408		0.2765	0.2476		0.2704	0.2510		0.2948	0.2374
	0.2958	0.2534		0.2836	0.2602		0.2775	0.2636		0.3019	0.2500
	0.2897	0.2568		0.2897	0.2568		0.2836	0.2602		0.2958	0.2534
H5	0.2968	0.2694	H4	0.2968	0.2694	H3	0.2907	0.2728	H6	0.3029	0.2660
	0.2897	0.2568		0.2897	0.2568		0.2836	0.2602		0.2958	0.2534
	0.2958	0.2534		0.2836	0.2602		0.2775	0.2636		0.3019	0.2500
	0.3029	0.2660		0.2907	0.2728		0.2846	0.2762		0.3090	0.2626
	0.2968	0.2694		0.2968	0.2694		0.2907	0.2728		0.3029	0.2660
J5	0.3039	0.2820	J4	0.3039	0.2820	J3	0.2978	0.2854	J6	0.3100	0.2786
	0.2968	0.2694		0.2968	0.2694		0.2907	0.2728		0.3029	0.2660
	0.3029	0.2660		0.2907	0.2728		0.2846	0.2762		0.3090	0.2626
	0.3100	0.2786		0.2978	0.2854		0.2917	0.2888		0.3161	0.2752
	0.3039	0.2820		0.3039	0.2820		0.2978	0.2854		0.3100	0.2786
K5	0.3110	0.2946	K4	0.3110	0.2946	K3	0.3049	0.2980	K6	0.3171	0.2912
	0.3039	0.2820		0.3039	0.2820		0.2978	0.2854		0.3100	0.2786
	0.3100	0.2786		0.2978	0.2854		0.2917	0.2888		0.3161	0.2752
	0.3171	0.2912		0.3049	0.2980		0.2988	0.3014		0.3232	0.2878
	0.3110	0.2946		0.3110	0.2946		0.3049	0.2980		0.3171	0.2912
L5	0.3181	0.3072	L4	0.3181	0.3072	L3	0.3120	0.3106	L6	0.3242	0.3038
	0.3110	0.2946		0.3110	0.2946		0.3049	0.2980		0.3171	0.2912
	0.3171	0.2912		0.3049	0.2980		0.2988	0.3014		0.3232	0.2878
	0.3242	0.3038		0.3120	0.3106		0.3059	0.3140		0.3303	0.3004
	0.3181	0.3072		0.3181	0.3072		0.3120	0.3106		0.3242	0.3038

Luminous Flux

Bin	Unit: lm		Unit: mcd	
	Min.	Max.	Min.	Max.
B45	4.50	4.75	1605	1695
B47	4.75	5.00	1695	1785
B50	5.00	5.25	1785	1875
B52	5.25	5.50	1875	1965
B55	5.50	5.75	1965	2055
B57	5.75	6.00	2055	2145
B60	6.00	6.25	2145	2235
B62	6.25	6.50	2235	2325
B65	6.50	6.75	2325	2415
B67	6.75	7.00	2415	2505
B70	7.00	7.25	2505	2595
B72	7.25	7.50	2595	2685
B75	7.50	7.75	2685	2775
B77	7.75	8.00	2775	2865
B80	8.00	8.25	2865	2955
B82	8.25	8.50	2955	3045
B85	8.50	8.75	3045	3135
B87	8.75	9.00	3135	3225
B90	9.00	9.25	3225	3315
B92	9.25	9.50	3315	3405
B95	9.50	9.75	3405	3495
B97	9.75	10.00	3495	3585

Note: Tolerance of Luminous Flux: $\pm 7\%$

V_F (Forward Voltage Spec. Setup)

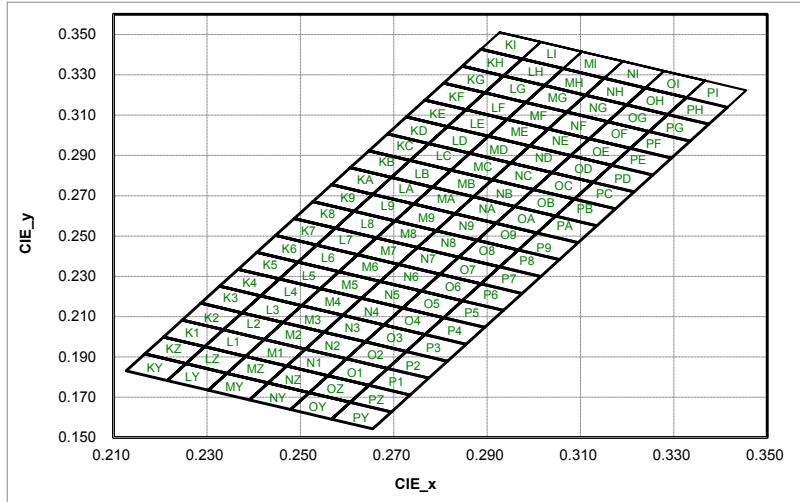
Bin	Unit: V	
	Min.	Max.
D26	2.60	2.70
D27	2.70	2.80
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D33	3.30	3.40
D34	3.40	3.50

Note: Tolerance of Forward Voltage: $\pm 0.05V$.

TECHNICAL DATA

SMD LED (3030/50/62 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
KY	0.2167	0.1915	KZ	0.2207	0.1999
	0.2255	0.1867		0.2295	0.1951
	0.2215	0.1783		0.2255	0.1867
	0.2127	0.1831		0.2167	0.1915
KE	0.2767	0.3175	KF	0.2807	0.3259
	0.2855	0.3127		0.2895	0.3211
	0.2815	0.3043		0.2855	0.3127
	0.2727	0.3091		0.2767	0.3175
L9	0.2655	0.2707	LA	0.2695	0.2791
	0.2743	0.2659		0.2783	0.2743
	0.2703	0.2575		0.2743	0.2659
	0.2615	0.2623		0.2655	0.2707
M4	0.2543	0.2239	M5	0.2583	0.2323
	0.2631	0.2191		0.2671	0.2275
	0.2591	0.2107		0.2631	0.2191
	0.2503	0.2155		0.2543	0.2239
NY	0.2431	0.1771	NZ	0.2471	0.1855
	0.2519	0.1723		0.2559	0.1807
	0.2479	0.1639		0.2519	0.1723
	0.2391	0.1687		0.2431	0.1771
NE	0.3031	0.3031	NF	0.3071	0.3115
	0.3119	0.2983		0.3159	0.3067
	0.3079	0.2899		0.3119	0.2983
	0.2991	0.2947		0.3031	0.3031
O9	0.2919	0.2563	OA	0.2959	0.2647
	0.3007	0.2515		0.3047	0.2599
	0.2967	0.2431		0.3007	0.2515
	0.2879	0.2479		0.2919	0.2563
P4	0.2807	0.2095	P5	0.2847	0.2179
	0.2895	0.2047		0.2935	0.2131
	0.2855	0.1963		0.2895	0.2047
	0.2767	0.2011		0.2807	0.2095

Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K1	0.2247	0.2083	K2	0.2287	0.2167	K3	0.2327	0.2251	K4	0.2367	0.2335	K5	0.2407	0.2419	K6	0.2447	0.2503
	0.2335	0.2035		0.2375	0.2119		0.2415	0.2203		0.2455	0.2287		0.2495	0.2371		0.2535	0.2455
	0.2295	0.1951		0.2335	0.2035		0.2375	0.2119		0.2415	0.2203		0.2455	0.2287		0.2495	0.2371
	0.2207	0.1999		0.2247	0.2083		0.2287	0.2167		0.2327	0.2251		0.2367	0.2335		0.2407	0.2419
KG	0.2847	0.3343	KH	0.2887	0.3427	KI	0.2927	0.3511	LY	0.2255	0.1867	LZ	0.2295	0.1951	L1	0.2335	0.2035
	0.2935	0.3295		0.2975	0.3379		0.3015	0.3463		0.2343	0.1819		0.2383	0.1903		0.2423	0.1987
	0.2895	0.3211		0.2935	0.3295		0.2975	0.3379		0.2303	0.1735		0.2343	0.1819		0.2383	0.1903
	0.2807	0.3259		0.2847	0.3343		0.2887	0.3427		0.2215	0.1783		0.2255	0.1867		0.2295	0.1951
LB	0.2735	0.2875	LC	0.2775	0.2959	LD	0.2815	0.3043	LE	0.2855	0.3127	LF	0.2895	0.3211	LG	0.2935	0.3295
	0.2823	0.2827		0.2863	0.2911		0.2903	0.2995		0.2943	0.3079		0.2983	0.3163		0.3023	0.3247
	0.2783	0.2743		0.2823	0.2827		0.2863	0.2911		0.2903	0.2995		0.2943	0.3079		0.2983	0.3163
	0.2695	0.2791		0.2735	0.2875		0.2775	0.2959		0.2815	0.3043		0.2855	0.3127		0.2895	0.3211
M6	0.2623	0.2407	M7	0.2663	0.2491	M8	0.2703	0.2575	M9	0.2743	0.2659	MA	0.2783	0.2743	MB	0.2823	0.2827
	0.2711	0.2359		0.2751	0.2443		0.2791	0.2527		0.2831	0.2611		0.2871	0.2695		0.2911	0.2779
	0.2671	0.2275		0.2711	0.2359		0.2751	0.2443		0.2791	0.2527		0.2831	0.2611		0.2871	0.2695
	0.2583	0.2323		0.2623	0.2407		0.2663	0.2491		0.2703	0.2575		0.2743	0.2659		0.2783	0.2743
N1	0.2511	0.1939	N2	0.2551	0.2023	N3	0.2591	0.2107	N4	0.2631	0.2191	N5	0.2671	0.2275	N6	0.2711	0.2359
	0.2599	0.1891		0.2639	0.1975		0.2679	0.2059		0.2719	0.2143		0.2759	0.2227		0.2799	0.2311
	0.2559	0.1807		0.2599	0.1891		0.2639	0.1975		0.2679	0.2059		0.2719	0.2143		0.2759	0.2227
	0.2471	0.1855		0.2511	0.1939		0.2551	0.2023		0.2591	0.2107		0.2631	0.2191		0.2671	0.2275
NG	0.3111	0.3199	NH	0.3151	0.3283	NI	0.3191	0.3367	OY	0.2519	0.1723	OZ	0.2559	0.1807	O1	0.2599	0.1891
	0.3199	0.3151		0.3239	0.3235		0.3279	0.3319		0.2607	0.1675		0.2647	0.1759		0.2687	0.1843
	0.3159	0.3067		0.3199	0.3151		0.3239	0.3235		0.2567	0.1591		0.2607	0.1675		0.2647	0.1759
	0.3071	0.3115		0.3111	0.3199		0.3151	0.3283		0.2479	0.1639		0.2519	0.1723		0.2559	0.1807
OB	0.2999	0.2731	OC	0.3039	0.2815	OD	0.3079	0.2899	OE	0.3119	0.2983	OF	0.3159	0.3067	OG	0.3199	0.3151
	0.3087	0.2683		0.3127	0.2767		0.3167	0.2851		0.3207	0.2935		0.3247	0.3019		0.3287	0.3103
	0.3047	0.2599		0.3087	0.2683		0.3127	0.2767		0.3167	0.2851		0.3207	0.2935		0.3247	0.3019
	0.2959	0.2647		0.2999	0.2731		0.3039	0.2815		0.3079	0.2899		0.3119	0.2983		0.3159	0.3067
P6	0.2887	0.2263	P7	0.2927	0.2347	P8	0.2967	0.2431	P9	0.3007	0.2515	PA	0.3047	0.2599	PB	0.3087	0.2683
	0.2975	0.2215		0.3015	0.2299		0.3055	0.2383		0.3095	0.2467		0.3135	0.2551		0.3175	0.2719
	0.2935	0.2131		0.2975	0.2215		0.3015	0.2299		0.3055	0.2383		0.3095	0.2467		0.3135	0.2551
	0.2847	0.2179		0.2887	0.2263		0.2927	0.2347		0.2967	0.2431		0.3007	0.2515		0.3047	0.2599

Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K8	0.2527	0.2671	K9	0.2567	0.2755	KA	0.2607	0.2839	KB	0.2647	0.2923	KC	0.2687	0.3007	KD	0.2727	0.3091
	0.2615	0.2623		0.2655	0.2707		0.2695	0.2791		0.2735	0.2875		0.2775	0.2959		0.2815	0.3043
	0.2575	0.2539		0.2615	0.2623		0.2655	0.2707		0.2695	0.2791		0.2735	0.2875		0.2775	0.2959
	0.2487	0.2587		0.2527	0.2671		0.2567	0.2755		0.2607	0.2839		0.2647	0.2923		0.2687	0.3007
L3	0.2415	0.2203	L4	0.2455	0.2287	L5	0.2495	0.2371	L6	0.2535	0.2455	L7	0.2575	0.2539	L8	0.2615	0.2623
	0.2503	0.2155		0.2543	0.2239		0.2583	0.2323		0.2623	0.2407		0.2663	0.2491		0.2703	0.2575
	0.2463	0.2071		0.2503	0.2155		0.2543	0.2239		0.2583	0.2323		0.2623	0.2407		0.2663	0.2491
	0.2375	0.2119		0.2415	0.2203		0.2455	0.2287		0.2495	0.2371		0.2535	0.2455		0.2575	0.2539
LI	0.3015	0.3463	MY	0.2343	0.1819	MZ	0.2383	0.1903	M1	0.2423	0.1987	M2	0.2463	0.2071	M3	0.2503	0.2155
	0.3103	0.3415		0.2431	0.1771		0.2471	0.1855		0.2511	0.1939		0.2551	0.2023		0.2591	0.2107
	0.3063	0.3331		0.2391	0.1687		0.2431	0.1771		0.2471	0.1855		0.2511	0.1939		0.2551	0.2023
	0.2975	0.3379		0.2303	0.1735		0.2343	0.1819		0.2383	0.1903		0.2423	0.1987		0.2463	0.2071
MD	0.2903	0.2995	ME	0.2943	0.3079	MF	0.2983	0.3163	MG	0.3023	0.3247	MH	0.3063	0.3331	MI	0.3103	0.3415
	0.2991	0.2947		0.3031	0.3031		0.3071	0.3115		0.3111	0.3199		0.3151	0.3283		0.3191	0.3367
	0.2951	0.2863		0.2991	0.2947		0.3031	0.3031		0.3071	0.3115		0.3111	0.3199		0.3151	0.3283
	0.2863	0.2911		0.2903	0.2995		0.2943	0.3079		0.2983	0.3163		0.3023	0.3247		0.3063	0.3331
N8	0.2791	0.2527	N9	0.2831	0.2611	NA	0.2871	0.2695	NB	0.2911	0.2779	NC	0.2951	0.2863	ND	0.2991	0.2947
	0.2879	0.2479		0.2919	0.2563		0.2959	0.2647		0.2999	0.2731		0.3039	0.2815		0.3079	0.2899
	0.2839	0.2395		0.2879	0.2479		0.2919	0.2563		0.2959	0.2647		0.2999	0.2731		0.3039	0.2815
	0.2751	0.2443		0.2791	0.2527		0.2831	0.2611		0.2871	0.2695		0.2911	0.2779		0.2951	0.2863
O3	0.2679	0.2059	O4	0.2719	0.2143	O5	0.2759	0.2227	O6	0.2799	0.2311	O7	0.2839	0.2395	O8	0.2879	0.2479
	0.2767	0.2011		0.2807	0.2095		0.2847	0.2179		0.2887	0.2263		0.2927	0.2347		0.2967	0.2431
	0.2727	0.1927		0.2767	0.2011		0.2807	0.2095		0.2847	0.2179		0.2887	0.2263		0.2927	0.2347
	0.2639	0.1975		0.2679	0.2059		0.2719	0.2143		0.2759	0.2227		0.2799	0.2311		0.2839	0.2395
OI	0.3279	0.3319	PY	0.2607	0.1675	PZ	0.2647	0.1759	P1	0.2687	0.1843	P2	0.2727	0.1927	P3	0.2767	0.2011
	0.3367	0.3271		0.2695	0.1627		0.2735	0.1711		0.2775	0.1795		0.2815	0.1879		0.2855	0.1963
	0.3327	0.3187		0.2655	0.1543		0.2695	0.1627		0.2735	0.1711		0.2775	0.1795		0.2815	0.1879
	0.3239	0.3235		0.2567	0.1591		0.2607	0.1675		0.2647	0.1759		0.2687	0.1843		0.2727	0.1927
PD	0.3167	0.2851	PE	0.3207	0.2935	PF	0.3247	0.3019	PG	0.3287	0.3103	PH	0.3327	0.3187	PI	0.3367	0.3271
	0.3255	0.2803		0.3295	0.2887		0.3335	0.2971		0.3375	0.3055		0.3415	0.3139		0.3455	0.3223
	0.3215	0.2719		0.3255	0.2803		0.3295	0.2887		0.3335	0.2971		0.3375	0.3055		0.3415	0.3139
	0.3127	0.2767		0.3167	0.2851		0.3207	0.2935		0.3247	0.3019		0.3287	0.3103		0.3327	0.3187

Luminous Flux

Bin	Unit: lm		Bin	Unit: lm		Bin	Unit: lm	
	Min.	Max.		Min.	Max.		Min.	Max.
H85	85	90	D10	10	11	E20	20	22
H90	90	95	D11	11	12	E22	22	24
H95	95	100	D12	12	13	E24	24	26
H100	100	105	D13	13	14	E26	26	28
H105	105	110	D14	14	15	E28	28	30
H110	110	115	D15	15	16	E30	30	32
H115	115	120	D16	16	17	E32	32	34
H120	120	125	D17	17	18	E34	34	36
H125	125	130	D18	18	19	E36	36	38
H130	130	135	D19	19	20	E38	38	40
H135	135	140	D20	20	21	E40	40	42
H140	140	145	D21	21	22	E42	42	44
H145	145	150	D22	22	23	E44	44	46
H150	150	155	D23	23	24	E46	46	48
H155	155	160	D24	24	25	E48	48	50
H160	160	165	D25	25	26	E50	50	52
H165	165	170	D26	26	27	E52	52	54
H170	170	175	D27	27	28	E54	54	56
H175	175	180	D28	28	29	E56	56	58
H180	180	185	D29	29	30	E58	58	60
H185	185	190	D30	30	31	E60	60	62
H190	190	195	D31	31	32	E62	62	64
H195	195	200	-	-	-	-	-	-

Note: Tolerance of Luminous Intensity: $\pm 7\%$.

V_F (Forward Voltage Spec. Setup)

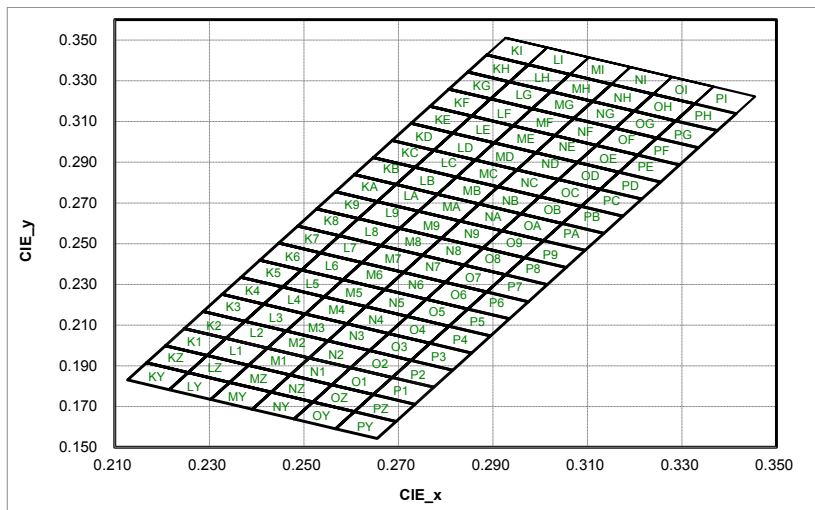
Bin	Unit: lm	
	Min.	Max.
E28	2.8	3
E30	3	3.2
E32	3.2	3.4
E34	3.4	3.6
E36	3.6	3.8
E38	3.8	4.0
D28	2.8	2.9
D29	2.9	3
D30	3	3.1
D31	3.1	3.2
D32	3.2	3.3
D33	3.3	3.4
D34	3.4	3.5
D35	3.5	3.6

Note: Tolerance of Forward Voltage: $\pm 0.05V$.

TECHNICAL DATA

SMD LED (Local Dimming) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
KY	0.2167	0.1915	KZ	0.2207	0.1999
	0.2255	0.1867		0.2295	0.1951
	0.2215	0.1783		0.2255	0.1867
KE	0.2127	0.1831	KF	0.2167	0.1915
	0.2767	0.3175		0.2807	0.3255
	0.2855	0.3127		0.2895	0.3211
	0.2815	0.3043		0.2855	0.3127
	0.2727	0.3091		0.2767	0.3175
L9	0.2655	0.2707	LA	0.2695	0.2791
	0.2743	0.2659		0.2783	0.2743
	0.2703	0.2575		0.2743	0.2659
	0.2615	0.2623		0.2655	0.2707
M4	0.2543	0.2239	M5	0.2583	0.2323
	0.2631	0.2191		0.2671	0.2275
	0.2591	0.2107		0.2631	0.2191
	0.2503	0.2155		0.2543	0.2239
NY	0.2431	0.1771	NZ	0.2471	0.1855
	0.2519	0.1723		0.2559	0.1807
	0.2479	0.1639		0.2519	0.1723
	0.2391	0.1687		0.2431	0.1771
NE	0.3031	0.3031	NF	0.3071	0.3115
	0.3119	0.2983		0.3159	0.3067
	0.3079	0.2899		0.3119	0.2983
	0.2991	0.2947		0.3031	0.3031
O9	0.2919	0.2563	OA	0.2959	0.2647
	0.3007	0.2515		0.3047	0.2599
	0.2967	0.2431		0.3007	0.2515
	0.2879	0.2479		0.2919	0.2563
P4	0.2807	0.2095	P5	0.2847	0.2179
	0.2895	0.2047		0.2935	0.2131
	0.2855	0.1963		0.2895	0.2047
	0.2767	0.2011		0.2807	0.2099

Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K1	0.2247	0.2083	K2	0.2287	0.2167	K3	0.2327	0.2251	K4	0.2367	0.2335	K5	0.2407	0.2419	K6	0.2447	0.2503	K7	0.2487	0.2587
	0.2335	0.2035		0.2375	0.2119		0.2415	0.2203		0.2455	0.2287		0.2495	0.2371		0.2535	0.2455		0.2575	0.2539
	0.2295	0.1951		0.2335	0.2035		0.2375	0.2119		0.2415	0.2203		0.2455	0.2287		0.2495	0.2371		0.2535	0.2455
	0.2207	0.1999		0.2247	0.2083		0.2287	0.2167		0.2327	0.2251		0.2367	0.2335		0.2407	0.2419		0.2447	0.2503
KG	0.2847	0.3343	KH	0.2887	0.3427	KI	0.2927	0.3511	LY	0.2255	0.1867	LZ	0.2295	0.1951	L1	0.2335	0.2035	L2	0.2375	0.2119
	0.2935	0.3295		0.2975	0.3379		0.3015	0.3463		0.2343	0.1819		0.2383	0.1903		0.2423	0.1987		0.2463	0.2071
	0.2895	0.3211		0.2935	0.3295		0.2975	0.3379		0.2303	0.1735		0.2343	0.1819		0.2383	0.1903		0.2423	0.1987
	0.2807	0.3259		0.2847	0.3343		0.2887	0.3427		0.2215	0.1783		0.2255	0.1867		0.2295	0.1951		0.2335	0.2035
LB	0.2735	0.2875	LC	0.2775	0.2959	LD	0.2815	0.3043	LE	0.2855	0.3127	LF	0.2895	0.3211	LG	0.2935	0.3295	LH	0.2975	0.3379
	0.2823	0.2827		0.2863	0.2911		0.2903	0.2995		0.2943	0.3079		0.2983	0.3163		0.3023	0.3247		0.3063	0.3331
	0.2783	0.2743		0.2823	0.2827		0.2863	0.2911		0.2903	0.2995		0.2943	0.3079		0.2983	0.3163		0.3023	0.3247
	0.2695	0.2791		0.2735	0.2875		0.2775	0.2959		0.2815	0.3043		0.2855	0.3127		0.2895	0.3211		0.2935	0.3295
M6	0.2623	0.2407	M7	0.2663	0.2491	M8	0.2703	0.2575	M9	0.2743	0.2659	MA	0.2783	0.2743	MB	0.2823	0.2827	MC	0.2863	0.2911
	0.2711	0.2359		0.2751	0.2443		0.2791	0.2527		0.2831	0.2611		0.2871	0.2695		0.2911	0.2779		0.2951	0.2863
	0.2671	0.2275		0.2711	0.2359		0.2751	0.2443		0.2791	0.2527		0.2831	0.2611		0.2871	0.2695		0.2911	0.2779
	0.2583	0.2323		0.2623	0.2407		0.2663	0.2491		0.2703	0.2575		0.2743	0.2659		0.2783	0.2743		0.2823	0.2827
N1	0.2511	0.1939	N2	0.2551	0.2023	N3	0.2591	0.2107	N4	0.2631	0.2191	N5	0.2671	0.2275	N6	0.2711	0.2359	N7	0.2751	0.2443
	0.2599	0.1891		0.2639	0.1975		0.2679	0.2059		0.2719	0.2143		0.2759	0.2227		0.2799	0.2311		0.2839	0.2395
	0.2559	0.1807		0.2599	0.1891		0.2639	0.1975		0.2679	0.2059		0.2719	0.2143		0.2759	0.2227		0.2799	0.2311
	0.2471	0.1855		0.2511	0.1939		0.2551	0.2023		0.2591	0.2107		0.2631	0.2191		0.2671	0.2275		0.2711	0.2359
NG	0.3111	0.3199	NH	0.3151	0.3283	NI	0.3191	0.3367	OY	0.2519	0.1723	OZ	0.2559	0.1807	O1	0.2599	0.1891	O2	0.2639	0.1975
	0.3199	0.3151		0.3239	0.3235		0.3279	0.3319		0.2607	0.1675		0.2647	0.1759		0.2687	0.1843		0.2727	0.1927
	0.3159	0.3067		0.3199	0.3151		0.3239	0.3235		0.2567	0.1591		0.2607	0.1675		0.2647	0.1759		0.2687	0.1843
	0.3071	0.3115		0.3111	0.3199		0.3151	0.3283		0.2479	0.1639		0.2519	0.1723		0.2559	0.1807		0.2599	0.1891
OB	0.2999	0.2731	OC	0.3039	0.2815	OD	0.3079	0.2899	OE	0.3119	0.2983	OF	0.3159	0.3067	OG	0.3199	0.3151	OH	0.3239	0.3235
	0.3087	0.2683		0.3127	0.2767		0.3167	0.2851		0.3207	0.2935		0.3247	0.3019		0.3287	0.3103		0.3327	0.3187
	0.3047	0.2599		0.3087	0.2683		0.3127	0.2767		0.3167	0.2851		0.3207	0.2935		0.3247	0.3019		0.3287	0.3103
	0.2959	0.2647		0.2999	0.2731		0.3039	0.2815		0.3079	0.2899		0.3119	0.2983		0.3159	0.3067		0.3199	0.3151
P6	0.2887	0.2263	P7	0.2927	0.2347	P8	0.2967	0.2431	P9	0.3007	0.2515	PA	0.3047	0.2599	PB	0.3087	0.2683	PC	0.3127	0.2767
	0.2975	0.2215		0.3015	0.2299		0.3055	0.2383		0.3095	0.2467		0.3135	0.2551		0.3175	0.2635		0.3215	0.2719
	0.2935	0.2131		0.2975	0.2215		0.3015	0.2299		0.3055	0.2383		0.3095	0.2467		0.3135	0.2551		0.3175	0.2635
	0.2847	0.2179		0.2887	0.2263		0.2927	0.2347		0.2967	0.2431		0.3007	0.2515		0.3047	0.2599		0.3087	0.2683

Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K8	0.2527	0.2671	K9	0.2567	0.2755	KA	0.2607	0.2839	KB	0.2647	0.2923	KC	0.2687	0.3007	KD	0.2727	0.3091
	0.2615	0.2623		0.2655	0.2707		0.2695	0.2791		0.2735	0.2875		0.2775	0.2959		0.2815	0.3043
	0.2575	0.2539		0.2615	0.2623		0.2655	0.2707		0.2695	0.2791		0.2735	0.2875		0.2775	0.2959
	0.2487	0.2587		0.2527	0.2671		0.2567	0.2755		0.2607	0.2839		0.2647	0.2923		0.2687	0.3007
L3	0.2415	0.2203	L4	0.2455	0.2287	L5	0.2495	0.2371	L6	0.2535	0.2455	L7	0.2575	0.2539	L8	0.2615	0.2623
	0.2503	0.2155		0.2543	0.2239		0.2583	0.2323		0.2623	0.2407		0.2663	0.2491		0.2703	0.2575
	0.2463	0.2071		0.2503	0.2155		0.2543	0.2239		0.2583	0.2323		0.2623	0.2407		0.2663	0.2491
	0.2375	0.2119		0.2415	0.2203		0.2455	0.2287		0.2495	0.2371		0.2535	0.2455		0.2575	0.2539
LI	0.3015	0.3463	MY	0.2343	0.1819	MZ	0.2383	0.1903	M1	0.2423	0.1987	M2	0.2463	0.2071	M3	0.2503	0.2155
	0.3103	0.3415		0.2431	0.1771		0.2471	0.1855		0.2511	0.1939		0.2551	0.2023		0.2591	0.2107
	0.3063	0.3331		0.2391	0.1687		0.2431	0.1771		0.2471	0.1855		0.2511	0.1939		0.2551	0.2023
	0.2975	0.3379		0.2303	0.1735		0.2343	0.1819		0.2383	0.1903		0.2423	0.1987		0.2463	0.2071
MD	0.2903	0.2995	ME	0.2943	0.3079	MF	0.2983	0.3163	MG	0.3023	0.3247	MH	0.3063	0.3331	MI	0.3103	0.3415
	0.2991	0.2947		0.3031	0.3031		0.3071	0.3115		0.3111	0.3199		0.3151	0.3283		0.3191	0.3367
	0.2951	0.2863		0.2991	0.2947		0.3031	0.3031		0.3071	0.3115		0.3111	0.3199		0.3151	0.3283
	0.2863	0.2911		0.2903	0.2995		0.2943	0.3079		0.2983	0.3163		0.3023	0.3247		0.3063	0.3331
N8	0.2791	0.2527	N9	0.2831	0.2611	NA	0.2871	0.2695	NB	0.2911	0.2779	NC	0.2951	0.2863	ND	0.2991	0.2947
	0.2879	0.2479		0.2919	0.2563		0.2959	0.2647		0.2999	0.2731		0.3039	0.2815		0.3079	0.2899
	0.2839	0.2395		0.2879	0.2479		0.2919	0.2563		0.2959	0.2647		0.2999	0.2731		0.3039	0.2815
	0.2751	0.2443		0.2791	0.2527		0.2831	0.2611		0.2871	0.2695		0.2911	0.2779		0.2951	0.2863
O3	0.2679	0.2059	O4	0.2719	0.2143	O5	0.2759	0.2227	O6	0.2799	0.2311	O7	0.2839	0.2395	O8	0.2879	0.2479
	0.2767	0.2011		0.2807	0.2095		0.2847	0.2179		0.2887	0.2263		0.2927	0.2347		0.2967	0.2431
	0.2727	0.1927		0.2767	0.2011		0.2807	0.2095		0.2847	0.2179		0.2887	0.2263		0.2927	0.2347
	0.2639	0.1975		0.2679	0.2059		0.2719	0.2143		0.2759	0.2227		0.2799	0.2311		0.2839	0.2395
OI	0.3279	0.3319	PY	0.2607	0.1675	PZ	0.2647	0.1759	P1	0.2687	0.1843	P2	0.2727	0.1927	P3	0.2767	0.2011
	0.3367	0.3271		0.2695	0.1627		0.2735	0.1711		0.2775	0.1795		0.2815	0.1879		0.2855	0.1963
	0.3327	0.3187		0.2655	0.1543		0.2695	0.1627		0.2735	0.1711		0.2775	0.1795		0.2815	0.1879
	0.3239	0.3235		0.2567	0.1591		0.2607	0.1675		0.2647	0.1759		0.2687	0.1843		0.2727	0.1927
PD	0.3167	0.2851	PE	0.3207	0.2935	PF	0.3247	0.3019	PG	0.3287	0.3103	PH	0.3327	0.3187	PI	0.3367	0.3271
	0.3255	0.2803		0.3295	0.2887		0.3335	0.2971		0.3375	0.3055		0.3415	0.3139		0.3455	0.3223
	0.3215	0.2719		0.3255	0.2803		0.3295	0.2887		0.3335	0.2971		0.3375	0.3055		0.3415	0.3139
	0.3127	0.2767		0.3167	0.2851		0.3207	0.2935		0.3247	0.3019		0.3287	0.3103		0.3327	0.3187

Luminous Flux

Bin	Unit: lm	
	Min.	Max.
C0	0.00	0.50
C5	0.50	1.00
C10	1.00	1.50
C15	1.50	2.00
C20	2.00	2.50
C25	2.50	3.00
C30	3.00	3.50
C35	3.50	4.00
C40	4.00	4.50
C45	4.50	5.00
C50	5.00	5.50
C55	5.50	6.00
C60	6.00	6.50
C65	6.50	7.00
C70	7.00	7.50
C75	7.50	8.00
C80	8.00	8.50

Radiant Power

Bin	Unit: lm	
	Min.	Max.
E0	0.00	2.00
E2	2.00	4.00
E4	4.00	6.00
E6	6.00	8.00
E8	8.00	10.00
E10	10.00	12.00
E12	12.00	14.00
E14	14.00	16.00
E16	16.00	18.00
E18	18.00	20.00
E20	20.00	22.00
E22	22.00	24.00
E24	24.00	26.00
E26	26.00	28.00
E28	28.00	30.00

V_F (Forward Voltage Spec. Setup)

Bin	Unit: lm	
	Min.	Max.
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
C270	2.70	2.75
C275	2.75	2.80
C280	2.80	2.85
C285	2.85	2.90
C290	2.90	2.95

Note: Tolerance of Luminous Intensity: ±7%.

Note: Tolerance of Luminous Intensity: ±7%.

Note: Tolerance of Forward Voltage: ±0.05

TECHNICAL DATA

LED LAMPs
BRIGHTNESS BIN SELECTION

Brightness Bin Selection

Unit : mcd

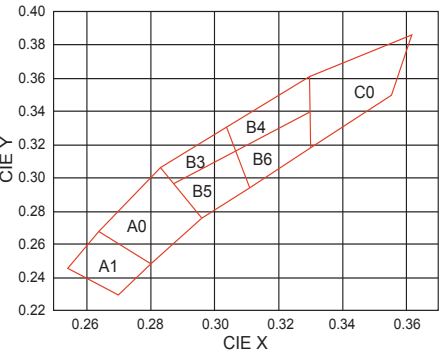
Item	Intensity Iv (mcd)	
Bin Code	Min.	Max.
a7	6.0	8.0
a6	8.0	10.0
a5	10.0	12.0
a4	12.0	15.0
a3	15.0	18.0
a2	18.0	22.0
a1	22.0	28.0
0	28.0	35.0
1	35.0	42.0
2	42.0	50.0
3	50.0	60.0
4	60.0	70.0
5	70.0	85.0
6	85.0	100
7	100	120
8	120	140
9	140	170
A	170	200
B	200	240
C	240	285
D	285	360
E	360	450
F	450	565
G	565	715
H	715	900
J	900	1,125
K	1,125	1,425
L	1,425	1,800
M	1,800	2,250
N	2,250	2,850
P	2,850	3,600
Q	3,600	4,500
R	4,500	5,650
S	5,650	7,150
T	7,150	9,000
U	9,000	11,250
V	11,250	14,250
W	14,250	18,000
X	18,000	22,500
Y	22,500	28,500
Z	28,500	36,000

Cool White / CIE Chromaticity Diagram

(If=20mA / Ta=25°C)

Color Ranks		CIE			
A1	X	0.255	0.264	0.280	0.270
	Y	0.245	0.267	0.248	0.230
A0	X	0.264	0.283	0.296	0.280
	Y	0.267	0.305	0.267	0.248
B3	X	0.283	0.304	0.307	0.287
	Y	0.305	0.330	0.315	0.295
B4	X	0.304	0.330	0.330	0.307
	Y	0.330	0.360	0.339	0.315
B5	X	0.287	0.307	0.311	0.296
	Y	0.295	0.315	0.294	0.276
B6	X	0.307	0.330	0.330	0.311
	Y	0.315	0.339	0.318	0.294
C0	X	0.330	0.361	0.355	0.330
	Y	0.360	0.385	0.350	0.318

Note: Measurement uncertainty of the color coordinates ±0.01.

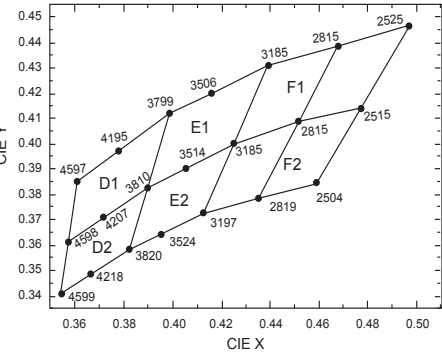


Warm White / CIE Chromaticity Diagram

(If=20mA / Ta=25°C)

Color Ranks		CIE			
D1	X	0.357	0.361	0.398	0.389
	Y	0.361	0.385	0.411	0.382
D2	X	0.354	0.357	0.389	0.382
	Y	0.340	0.361	0.382	0.358
E1	X	0.389	0.398	0.439	0.425
	Y	0.382	0.411	0.431	0.400
E2	X	0.382	0.389	0.425	0.412
	Y	0.358	0.382	0.400	0.372
F1	X	0.425	0.439	0.497	0.477
	Y	0.400	0.431	0.466	0.413
F2	X	0.412	0.425	0.477	0.458
	Y	0.372	0.400	0.413	0.383

Note: Measurement uncertainty of the color coordinates ±0.01.

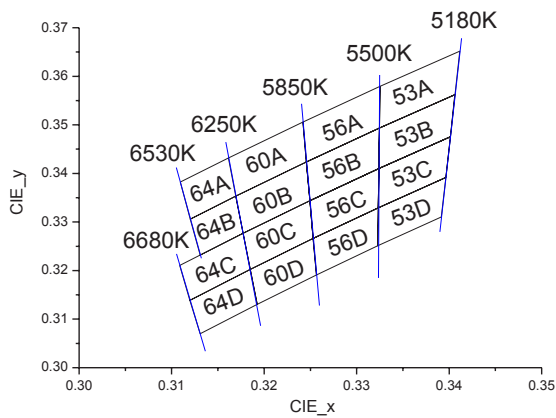


DIGITAL DISPLAY
BRIGHTNESS BIN SELECTION

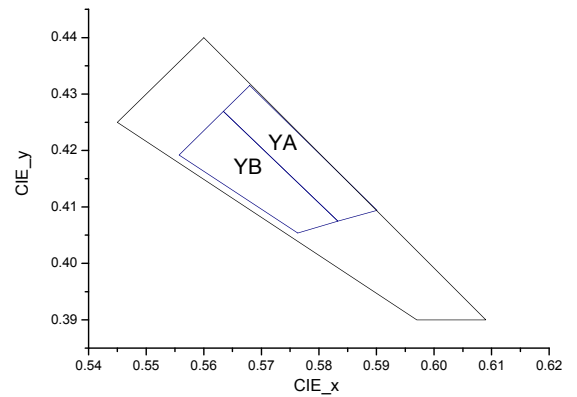
Bin Code	Brightness Range (μcd)	
	Min.	Max.
C	70	140
D	110	220
E	180	360
F	280	560
G	450	900
H	750	1200
J	1050	1680
K	1400	2300
L	2000	3200
M	2800	4500
N	4000	6400
P	5600	8900
Q	7800	12500
R	11000	17600
S	15000	24000
T	21000	34000
U	30000	48000
V	42000	67000
W	59000	94000
X	83000	133000
Y	116000	186000
Z	158800	254000

AUTOMOTIVE BIN SELECTION

Exterior White / Cool-White Bin Structure



Amber Bin Structure



Cool-White Bin Coordinates

Bin	CIE X	CIE Y	Bin	CIE X	CIE Y	Bin	CIE X	CIE Y
64A	0.3109	0.3382	60C	0.3177	0.3277	53A	0.3325	0.3579
	0.3161	0.3432		0.3249	0.3344		0.3412	0.3652
	0.3169	0.3353		0.3253	0.3266		0.3406	0.3562
	0.3120	0.3306		0.3185	0.3203		0.3325	0.3493
Reference Range: 6240~6530K			Reference Range: 5850~6240K			Reference Range: 5180~5500K		
64B	0.3120	0.3306	60D	0.3185	0.3203	53B	0.3325	0.3493
	0.3169	0.3353		0.3253	0.3266		0.3406	0.3562
	0.3177	0.3277		0.3256	0.3191		0.3401	0.3476
	0.3131	0.3232		0.3192	0.3131		0.3324	0.3410
Reference Range: 6240~6530K			Reference Range: 5850~6240K			Reference Range: 5180~5500K		
64C	0.3109	0.3211	56A	0.3242	0.3506	53C	0.3324	0.3410
	0.3177	0.3277		0.3325	0.3579		0.3401	0.3476
	0.3185	0.3203		0.3325	0.3493		0.3396	0.3392
	0.3120	0.3139		0.3246	0.3424		0.3323	0.3329
Reference Range: 6240~6680K			Reference Range: 5500~5850K			Reference Range: 5180~5500K		
64D	0.3120	0.3139	56B	0.3246	0.3424	53D	0.3323	0.3329
	0.3185	0.3203		0.3325	0.3493		0.3396	0.3392
	0.3192	0.3131		0.3324	0.3410		0.3392	0.3310
	0.3131	0.3070		0.3249	0.3344		0.3323	0.3251
Reference Range: 6240~6680K			Reference Range: 5500~5850K			Reference Range: 5180~5500K		
60A	0.3161	0.3432	56C	0.3249	0.3344			
	0.3242	0.3506		0.3324	0.3410			
	0.3246	0.3424		0.3323	0.3329			
	0.3169	0.3353		0.3253	0.3266			
Reference Range: 5850~6240K			Reference Range: 5500~5850K					
60B	0.3169	0.3353	56D	0.3253	0.3266			
	0.3246	0.3424		0.3323	0.3329			
	0.3249	0.3344		0.3323	0.3251			
	0.3177	0.3277		0.3256	0.3191			
Reference Range: 5850~6240K			Reference Range: 5500~5850K					

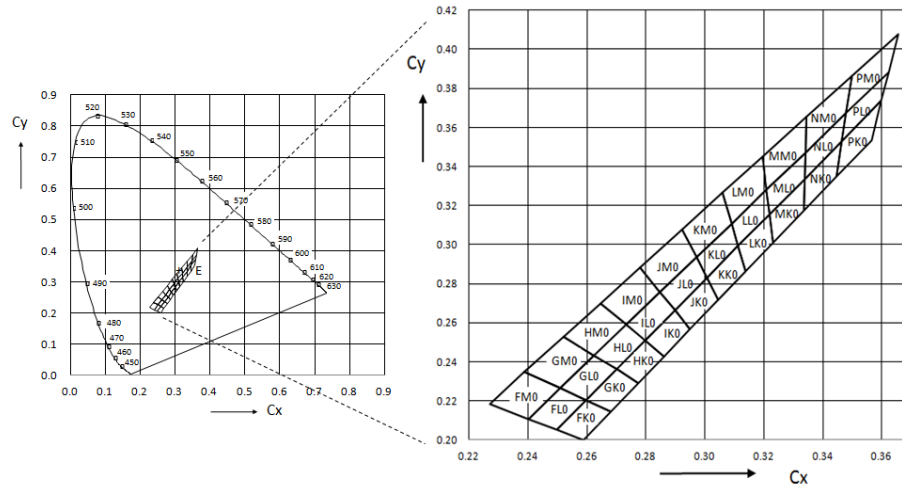
Amber Bin Coordinates

Bin	CIE X	CIE Y
YA	0.5680	0.4315
	0.5634	0.4269
	0.5833	0.4075
	0.5901	0.4094
YB	0.5763	0.4054
	0.5833	0.4075
	0.5634	0.4269
	0.5557	0.4192

TECHNICAL DATA

AUTOMOTIVE BIN SELECTION

Interior / White



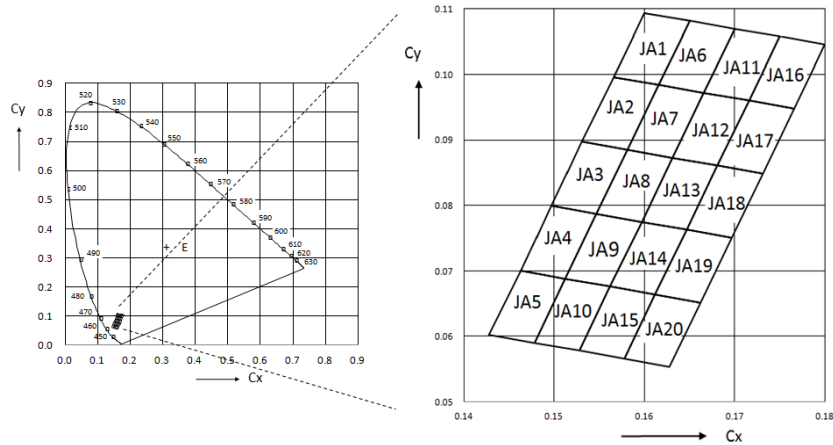
Bin Range of Chromaticity Coordinates Specifications

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
FK0	0.2589	0.2000	NK0	0.3339	0.3336	LL0	0.3113	0.2992	JM0	0.2848	0.2757
	0.2498	0.2053		0.3335	0.3172		0.3090	0.3108		0.2780	0.2883
	0.2597	0.2204		0.3447	0.3347		0.3209	0.3281		0.2922	0.3077
	0.2682	0.2146		0.3465	0.3530		0.3219	0.3154		0.2971	0.2935
GK0	0.2682	0.2146	PK0	0.3465	0.3530	ML0	0.3341	0.3472	KM0	0.2971	0.2935
	0.2597	0.2204		0.3447	0.3347		0.3209	0.3281		0.2922	0.3077
	0.2700	0.2361		0.3567	0.3535		0.3219	0.3154		0.3060	0.3266
	0.2775	0.2292		0.3599	0.3735		0.3339	0.3336		0.3090	0.3108
HK0	0.2775	0.2292	FL0	0.2498	0.2053	NL0	0.3341	0.3472	LM0	0.3090	0.3108
	0.2700	0.2361		0.2402	0.2108		0.3339	0.3336		0.3060	0.3266
	0.2797	0.2509		0.2509	0.2264		0.3465	0.3530		0.3196	0.3451
	0.2861	0.2427		0.2597	0.2204		0.3479	0.3673		0.3209	0.3281
IK0	0.2861	0.2427	GL0	0.2597	0.2204	PL0	0.3479	0.3673	MM0	0.3345	0.3654
	0.2797	0.2509		0.2509	0.2264		0.3465	0.3530		0.3196	0.3451
	0.2898	0.2664		0.2624	0.2431		0.3599	0.3735		0.3209	0.3281
	0.2950	0.2568		0.2700	0.2361		0.3623	0.3882		0.3341	0.3472
JK0	0.2950	0.2568	HL0	0.2700	0.2361	FM0	0.2388	0.2348	NM0	0.3345	0.3654
	0.2898	0.2664		0.2624	0.2431		0.2269	0.2185		0.3341	0.3472
	0.3007	0.2830		0.2733	0.2590		0.2402	0.2108		0.3479	0.3673
	0.3045	0.2717		0.2797	0.2509		0.2509	0.2264		0.3498	0.3863
KK0	0.3045	0.2717	IL0	0.2797	0.2509	GM0	0.2509	0.2264	PM0	0.3498	0.3863
	0.3007	0.2830		0.2733	0.2590		0.2388	0.2348		0.3479	0.3673
	0.3113	0.2992		0.2848	0.2757		0.2520	0.2527		0.3623	0.3882
	0.3138	0.2862		0.2898	0.2664		0.2624	0.2431		0.3655	0.4079
LK0	0.3138	0.2862	JL0	0.2898	0.2664	HM0	0.2624	0.2431			
	0.3113	0.2992		0.2848	0.2757		0.2530	0.2527			
	0.3219	0.3154		0.2971	0.2935		0.2646	0.2700			
	0.3231	0.3008		0.3007	0.2830		0.2733	0.2590			
MK0	0.3339	0.3336	KL0	0.3007	0.2830	IM0	0.2733	0.2590			
	0.3219	0.3154		0.2971	0.2935		0.2646	0.2700			
	0.3231	0.3008		0.3090	0.3108		0.2780	0.2883			
	0.3335	0.3172		0.3113	0.2992		0.2848	0.2757			

Notes: Tolerance of Chromaticity Coordinates: ± 0.01

AUTOMOTIVE BIN SELECTION

Interior / Sky Blue

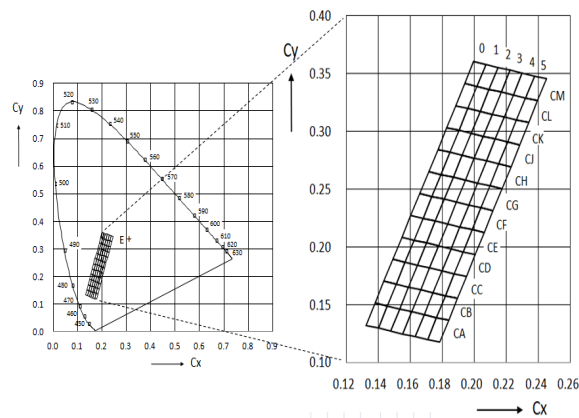


Bin Range of Chromaticity Coordinates Specifications

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
JA1	0.1600	0.1094	JA9	0.1547	0.0787	JA17	0.1716	0.0960
	0.1650	0.1082		0.1597	0.0775		0.1766	0.0948
	0.1616	0.0984		0.1562	0.0676		0.1731	0.0849
	0.1566	0.0996		0.1512	0.0688		0.1681	0.0861
JA2	0.1566	0.0996	JA10	0.1512	0.0688	JA18	0.1681	0.0861
	0.1616	0.0984		0.1562	0.0676		0.1731	0.0849
	0.1581	0.0885		0.1528	0.0578		0.1697	0.0751
	0.1531	0.0897		0.1478	0.0590		0.1647	0.0763
JA3	0.1531	0.0897	JA11	0.1700	0.1070	JA19	0.1647	0.0763
	0.1581	0.0885		0.1750	0.1058		0.1697	0.0751
	0.1547	0.0787		0.1716	0.0960		0.1662	0.0652
	0.1497	0.0799		0.1666	0.0972		0.1612	0.0664
JA4	0.1497	0.0799	JA12	0.1666	0.0972	JA20	0.1612	0.0664
	0.1547	0.0787		0.1716	0.0960		0.1662	0.0652
	0.1512	0.0688		0.1681	0.0861		0.1628	0.0554
	0.1463	0.0700		0.1631	0.0873		0.1578	0.0566
JA5	0.1463	0.0700	JA13	0.1631	0.0873			
	0.1512	0.0688		0.1681	0.0861			
	0.1478	0.0590		0.1647	0.0763			
	0.1428	0.0602		0.1597	0.0775			
JA6	0.1650	0.1082	JA14	0.1597	0.0775			
	0.1700	0.1070		0.1647	0.0763			
	0.1666	0.0972		0.1612	0.0664			
	0.1616	0.0984		0.1562	0.0676			
JA7	0.1616	0.0984	JA15	0.1562	0.0676			
	0.1666	0.0972		0.1612	0.0664			
	0.1631	0.0873		0.1578	0.0566			
	0.1581	0.0885		0.1528	0.0578			
JA8	0.1581	0.0885	JA16	0.1750	0.1058			
	0.1631	0.0873		0.1800	0.1046			
	0.1597	0.0775		0.1766	0.0948			
	0.1547	0.0787		0.1716	0.0960			

AUTOMOTIVE
BIN SELECTION

Interior / Ice Blue



Bin Range of Chromaticity Coordinates Specifications

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
CM0	0.1940	0.3415	CL1	0.1960	0.3200
	0.1996	0.3605		0.2016	0.3390
	0.2072	0.3580		0.2092	0.3366
	0.2016	0.3390		0.2036	0.3176
CM1	0.2016	0.3390	CL2	0.2036	0.3176
	0.2072	0.3580		0.2092	0.3366
	0.2148	0.3556		0.2168	0.3341
	0.2092	0.3366		0.2112	0.3151
CM2	0.2092	0.3366	CL3	0.2112	0.3151
	0.2148	0.3556		0.2168	0.3341
	0.2224	0.3531		0.2244	0.3316
	0.2168	0.3341		0.2188	0.3126
CM3	0.2168	0.3341	CL4	0.2188	0.3126
	0.2224	0.3531		0.2244	0.3316
	0.2299	0.3506		0.2319	0.3291
	0.2244	0.3316		0.2264	0.3101
CM4	0.2244	0.3316	CL5	0.2264	0.3101
	0.2299	0.3506		0.2319	0.3291
	0.2375	0.3481		0.2395	0.3267
	0.2319	0.3291		0.2340	0.3077
CM5	0.2319	0.3291	CK0	0.1828	0.3035
	0.2375	0.3481		0.1884	0.3225
	0.2451	0.3457		0.1960	0.3200
	0.2395	0.3267		0.1904	0.3010
CL0	0.1884	0.3225	CK1	0.1904	0.3010
	0.1940	0.3415		0.1960	0.3200
	0.2016	0.3390		0.2036	0.3176
	0.1960	0.3200		0.1980	0.2986

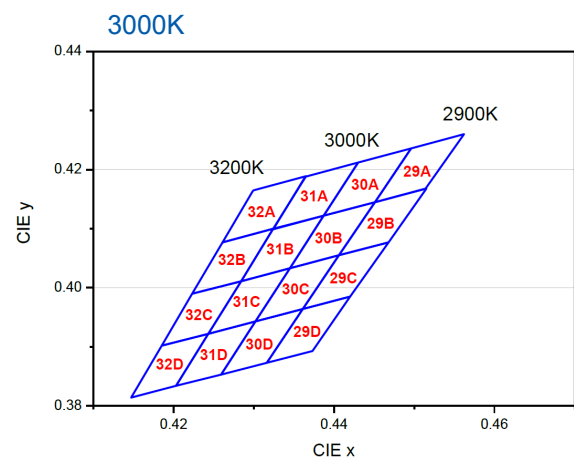
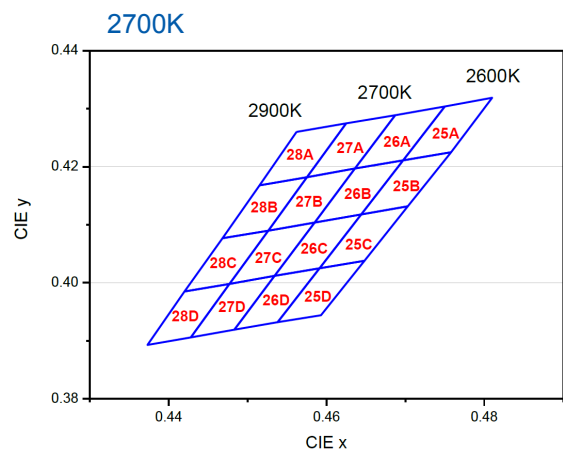
Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
CK2	0.1980	0.2986	CH1	0.1792	0.2630
	0.2036	0.3176		0.1848	0.2820
	0.2112	0.3151		0.1924	0.2796
	0.2056	0.2961		0.1869	0.2606
CK3	0.2056	0.2961	CH2	0.1869	0.2606
	0.2112	0.3151		0.1924	0.2796
	0.2188	0.3126		0.2000	0.2771
	0.2132	0.2936		0.1945	0.2581
CK4	0.2132	0.2936	CH3	0.1945	0.2581
	0.2188	0.3126		0.2000	0.2771
	0.2264	0.3101		0.2077	0.2746
	0.2208	0.2911		0.2021	0.2556
CK5	0.2208	0.2911	CH4	0.2021	0.2556
	0.2264	0.3101		0.2077	0.2746
	0.2340	0.3077		0.2153	0.2721
	0.2284	0.2887		0.2097	0.2531
CJ0	0.1772	0.2845	CH5	0.2097	0.2531
	0.1828	0.3035		0.2153	0.2721
	0.1904	0.3010		0.2229	0.2697
	0.1848	0.2820		0.2173	0.2507
CJ1	0.1848	0.2820	CG0	0.1660	0.2465
	0.1904	0.3010		0.1716	0.2655
	0.1980	0.2986		0.1792	0.2630
	0.1924	0.2796		0.1736	0.2440
CJ2	0.1924	0.2796	CG1	0.1736	0.2440
	0.1980	0.2986		0.1792	0.2630
	0.2056	0.2961		0.1869	0.2606
	0.2000	0.2771		0.1813	0.2416
CJ3	0.2000	0.2771	CG2	0.1813	0.2416
	0.2056	0.2961		0.1869	0.2606
	0.2132	0.2936		0.1945	0.2581
	0.2077	0.2746		0.1889	0.2391
CJ4	0.2077	0.2746	CG3	0.1889	0.2391
	0.2132	0.2936		0.1945	0.2581
	0.2208	0.2911		0.2021	0.2556
	0.2153	0.2721		0.1965	0.2366
CJ5	0.2153	0.2721	CG4	0.1965	0.2366
	0.2208	0.2911		0.2021	0.2556
	0.2284	0.2887		0.2097	0.2531
	0.2229	0.2697		0.2043	0.2341
CH0	0.1716	0.2655	CG5	0.2043	0.2341
	0.1772	0.2845		0.2097	0.2531
	0.1848	0.2820		0.2173	0.2507
	0.1792	0.2630		0.2118	0.2317

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
CF0	0.1604	0.2275	CE5	0.1930	0.1961
	0.1660	0.2465		0.1986	0.2151
	0.1736	0.2440		0.2062	0.2127
	0.1680	0.2250		0.2007	0.1937
CF1	0.1680	0.2250	CD0	0.1492	0.1895
	0.1736	0.2440		0.1548	0.2085
	0.1813	0.2416		0.1624	0.2060
	0.1757	0.2226		0.1568	0.1870
CF2	0.1757	0.2226	CD1	0.1568	0.1870
	0.1813	0.2416		0.1624	0.2060
	0.1889	0.2391		0.1701	0.2036
	0.1833	0.2201		0.1645	0.1846
CF3	0.1833	0.2201	CD2	0.1645	0.1846
	0.1889	0.2391		0.1701	0.2036
	0.1965	0.2366		0.1777	0.2011
	0.1909	0.2176		0.1721	0.1821
CF4	0.1909	0.2176	CD3	0.1721	0.1821
	0.1965	0.2366		0.1777	0.2011
	0.2043	0.2341		0.1854	0.1986
	0.1986	0.2151		0.1798	0.1796
CF5	0.1986	0.2151	CD4	0.1798	0.1796
	0.2043	0.2341		0.1854	0.1986
	0.2118	0.2317		0.1930	0.1961
	0.2062	0.2127		0.1875	0.1771
CE0	0.1548	0.2085	CD5	0.1875	0.1771
	0.1604	0.2275		0.1930	0.1961
	0.1680	0.2250		0.2007	0.1937
	0.1624	0.2060		0.1951	0.1747
CE1	0.1624	0.2060	CC0	0.1436	0.1705
	0.1680	0.2250		0.1492	0.1895
	0.1757	0.2226		0.1568	0.1870
	0.1701	0.2036		0.1513	0.1680
CE2	0.1701	0.2036	CC1	0.1513	0.1680
	0.1757	0.2226		0.1568	0.1870
	0.1833	0.2201		0.1645	0.1846
	0.1777	0.2011		0.1589	0.1656
CE3	0.1777	0.2011	CC2	0.1589	0.1656
	0.1833	0.2201		0.1645	0.1846
	0.1909	0.2176		0.1721	0.1821
	0.1854	0.1986		0.1666	0.1631
CE4	0.1854	0.1986	CC3	0.1666	0.1631
	0.1909	0.2176		0.1721	0.1821
	0.1986	0.2151		0.1798	0.1796
	0.1930	0.1961		0.1742	0.1606

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
CC4	0.1742	0.1606	CB5	0.1764	0.1391
	0.1798	0.1796		0.1819	0.1581
	0.1875	0.1771		0.1896	0.1557
	0.1819	0.1581		0.1840	0.1367
CC5	0.1819	0.1581	CA0	0.1324	0.1325
	0.1875	0.1771		0.1380	0.1515
	0.1951	0.1747		0.1457	0.1490
	0.1896	0.1557		0.1401	0.1300
CB0	0.1380	0.1515	CA1	0.1401	0.1300
	0.1436	0.1705		0.1457	0.1490
	0.1513	0.1680		0.1533	0.1466
	0.1457	0.1490		0.1477	0.1276
CB1	0.1457	0.1490	CA2	0.1477	0.1276
	0.1513	0.1680		0.1533	0.1466
	0.1589	0.1656		0.1610	0.1441
	0.1533	0.1466		0.1554	0.1251
CB2	0.1533	0.1466	CA3	0.1554	0.1251
	0.1589	0.1656		0.1610	0.1441
	0.1666	0.1631		0.1687	0.1416
	0.1610	0.1441		0.1631	0.1226
CB3	0.1610	0.1441	CA4	0.1631	0.1226
	0.1666	0.1631		0.1687	0.1416
	0.1742	0.1606		0.1764	0.1391
	0.1687	0.1416		0.1708	0.1201
CB4	0.1687	0.1416	CA5	0.1708	0.1201
	0.1742	0.1606		0.1764	0.1391
	0.1819	0.1581		0.1840	0.1367
	0.1764	0.1391		0.1785	0.1177

AUTOMOTIVE
BIN SELECTION

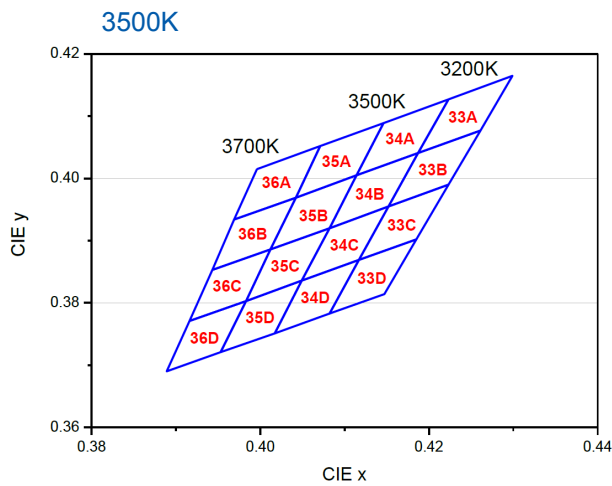
Interior / 5630/2835



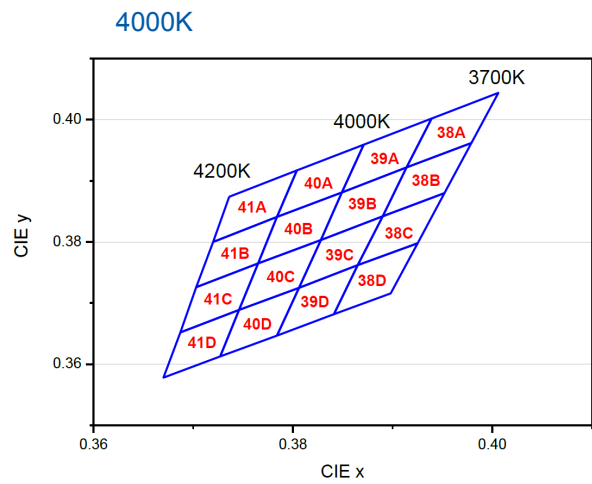
Bin Range of Chromaticity Coordinates Specifications

CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
2700K	25A	0.4750	0.4304	25B	0.4697	0.4211
		0.4697	0.4211		0.4644	0.4118
		0.4758	0.4225		0.4703	0.4132
		0.4810	0.4319		0.4758	0.4225
	25C	0.4644	0.4118	25D	0.4591	0.4025
		0.4591	0.4025		0.4538	0.3932
		0.4648	0.4038		0.4593	0.3944
		0.4703	0.4132		0.4648	0.4038
	26A	0.4687	0.4289	26B	0.4636	0.4197
		0.4636	0.4197		0.4585	0.4104
		0.4697	0.4211		0.4644	0.4118
		0.4750	0.4304		0.4697	0.4211
	26C	0.4585	0.4104	26D	0.4534	0.4012
		0.4534	0.4012		0.4483	0.3919
		0.4591	0.4025		0.4538	0.3932
		0.4644	0.4118		0.4591	0.4025
	27A	0.4625	0.4275	27B	0.4575	0.4182
		0.4575	0.4182		0.4526	0.4090
		0.4636	0.4197		0.4585	0.4104
		0.4687	0.4289		0.4636	0.4197
	27C	0.4526	0.4090	27D	0.4477	0.3998
		0.4477	0.3998		0.4428	0.3906
		0.4534	0.4012		0.4483	0.3919
		0.4585	0.4104		0.4534	0.4012
	28A	0.4562	0.4260	28B	0.4515	0.4168
		0.4515	0.4168		0.4468	0.4077
		0.4575	0.4182		0.4526	0.4090
		0.4625	0.4275		0.4575	0.4182
	28C	0.4468	0.4077	28D	0.4420	0.3985
		0.4420	0.3985		0.4373	0.3893
		0.4477	0.3998		0.4428	0.3906
		0.4526	0.4090		0.4477	0.3998

CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
3000K	29A	0.4496	0.4236	29B	0.4451	0.4145
		0.4451	0.4145		0.4406	0.4055
		0.4514	0.4168		0.4468	0.4077
		0.4562	0.4260		0.4515	0.4168
	29C	0.4406	0.4055	29D	0.4361	0.3964
		0.4361	0.3964		0.4316	0.3873
		0.4420	0.3985		0.4373	0.3893
		0.4468	0.4077		0.4420	0.3985
	30A	0.4430	0.4212	30B	0.4387	0.4122
		0.4387	0.4122		0.4345	0.4033
		0.4451	0.4145		0.4406	0.4055
		0.4496	0.4236		0.4451	0.4145
	30C	0.4345	0.4033	30D	0.4302	0.3943
		0.4302	0.3943		0.4259	0.3853
		0.4361	0.3964		0.4316	0.3873
		0.4406	0.4055		0.4361	0.3964
	31A	0.4364	0.4188	31B	0.4324	0.4100
		0.4324	0.4099		0.4284	0.4011
		0.4387	0.4122		0.4345	0.4033
		0.4430	0.4212		0.4387	0.4122
	31C	0.4284	0.4011	31D	0.4302	0.3943
		0.4243	0.3922		0.4259	0.3853
		0.4302	0.3943		0.4203	0.3834
		0.4345	0.4033		0.4243	0.3922
	32A	0.4299	0.4165	32B	0.4261	0.4077
		0.4261	0.4077		0.4223	0.3990
		0.4324	0.4100		0.4284	0.4011
		0.4365	0.4189		0.4324	0.4100
	32C	0.4223	0.3990	32D	0.4243	0.3922
		0.4185	0.3902		0.4203	0.3834
		0.4243	0.3922		0.4147	0.3814
		0.4284	0.4011		0.4185	0.3902



Bin Range of Chromaticity Coordinates Specifications



Bin Range of Chromaticity Coordinates Specifications

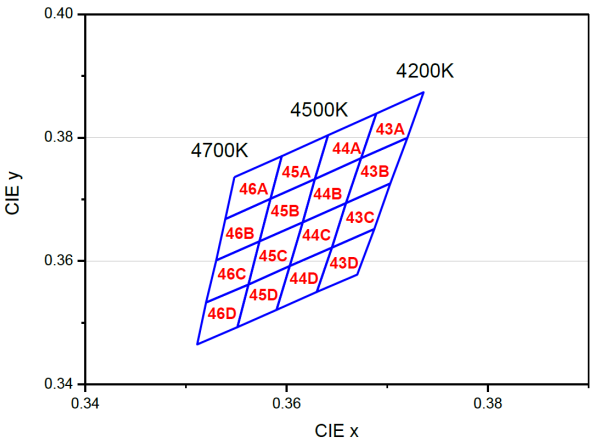
CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
3500K	33A	0.4223	0.4127	33B	0.4187	0.4041
		0.4187	0.4041		0.4152	0.3955
		0.4261	0.4077		0.4223	0.3990
		0.4299	0.4165		0.4261	0.4077
	33C	0.4152	0.3955	33D	0.4117	0.3869
		0.4117	0.3869		0.4082	0.3783
		0.4185	0.3902		0.4147	0.3814
		0.4223	0.3990		0.4185	0.3902
	34A	0.4146	0.4089	34B	0.4114	0.4005
		0.4114	0.4005		0.4082	0.3920
		0.4187	0.4041		0.4152	0.3955
		0.4223	0.4127		0.4187	0.4041
	34C	0.4082	0.3920	34D	0.4049	0.3836
		0.4049	0.3836		0.4017	0.3751
		0.4117	0.3869		0.4082	0.3783
		0.4152	0.3955		0.4117	0.3869
	35A	0.4071	0.4052	35B	0.4042	0.3969
		0.4042	0.3969		0.4012	0.3886
		0.4114	0.4005		0.4082	0.3920
		0.4146	0.4089		0.4114	0.4005
	35C	0.4012	0.3886	35D	0.3983	0.3803
		0.3983	0.3803		0.3953	0.3721
		0.4049	0.3836		0.4017	0.3751
		0.4082	0.3920		0.4049	0.3836
	36A	0.3996	0.4015	36B	0.3969	0.3934
		0.3969	0.3934		0.3943	0.3853
		0.4042	0.3969		0.4012	0.3886
		0.4071	0.4052		0.4042	0.3969
	36C	0.3943	0.3853	36D	0.3916	0.3771
		0.3916	0.3771		0.3889	0.3690
		0.3983	0.3803		0.3953	0.3721
		0.4012	0.3886		0.3983	0.3803

CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
4000K	38A	0.3939	0.4002	38B	0.3914	0.3922
		0.3914	0.3922		0.3890	0.3842
		0.3979	0.3962		0.3952	0.3880
		0.4006	0.4044		0.3979	0.3962
	38C	0.3890	0.3842	38D	0.3865	0.3762
		0.3865	0.3762		0.3841	0.3682
		0.3925	0.3798		0.3898	0.3716
		0.3952	0.3880		0.3925	0.3798
	39A	0.3871	0.3959	39B	0.3849	0.3881
		0.3849	0.3881		0.3828	0.3803
		0.3914	0.3922		0.3890	0.3842
		0.3939	0.4002		0.3914	0.3922
	39C	0.3828	0.3803	39D	0.3806	0.3725
		0.3806	0.3725		0.3784	0.3647
		0.3865	0.3762		0.3841	0.3682
		0.3890	0.3842		0.3865	0.3762
	40A	0.3804	0.3917	40B	0.3784	0.3841
		0.3784	0.3841		0.3765	0.3765
		0.3849	0.3881		0.3828	0.3803
		0.3871	0.3959		0.3849	0.3881
	40C	0.3765	0.3765	40D	0.3746	0.3689
		0.3746	0.3689		0.3727	0.3613
		0.3806	0.3725		0.3784	0.3647
		0.3828	0.3803		0.3806	0.3725
	41A	0.3736	0.3874	41B	0.3720	0.3800
		0.3720	0.3800		0.3703	0.3726
		0.3784	0.3841		0.3765	0.3765
		0.3804	0.3917		0.3784	0.3841
	41C	0.3703	0.3726	41D	0.3687	0.3652
		0.3687	0.3652		0.3670	0.3578
		0.3746	0.3689		0.3727	0.3613
		0.3765	0.3765		0.3746	0.3689

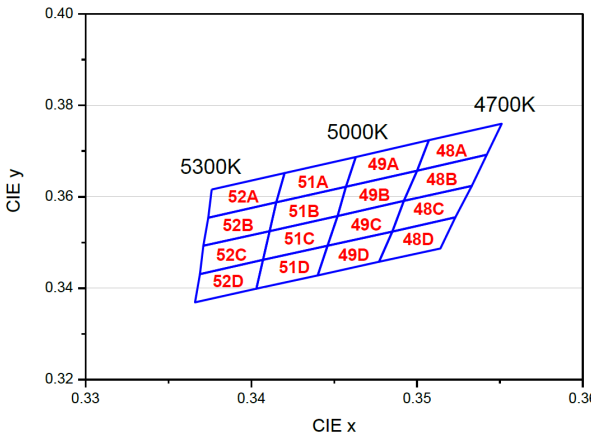
AUTOMOTIVE
BIN SELECTION

Interior / 5630/2835

4500K

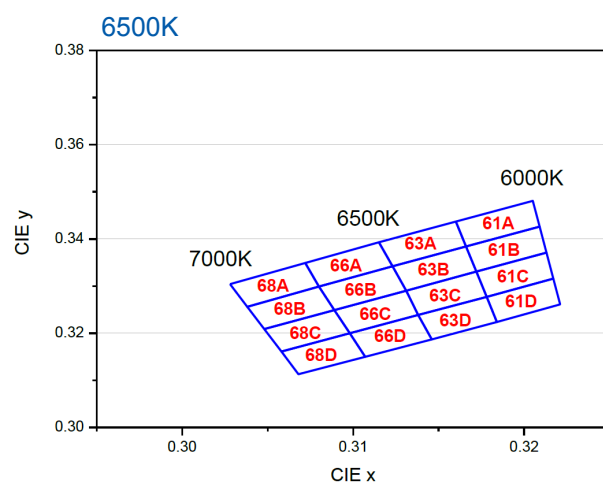
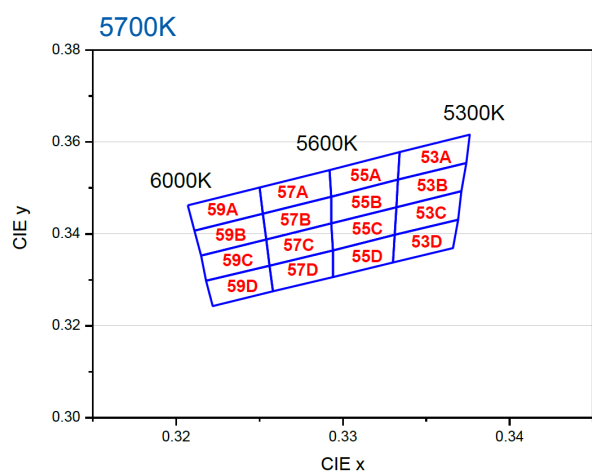


5000K



CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
4500K	43A	0.3689	0.3839	43B	0.3674	0.3767
		0.3674	0.3767		0.3659	0.3694
		0.3720	0.3800		0.3703	0.3726
		0.3736	0.3874		0.3720	0.3800
	43C	0.3659	0.3694	43D	0.3645	0.3622
		0.3645	0.3622		0.3630	0.3550
		0.3687	0.3652		0.3670	0.3578
		0.3703	0.3726		0.3687	0.3652
	44A	0.3641	0.3804	44B	0.3628	0.3733
		0.3628	0.3733		0.3616	0.3663
		0.3674	0.3767		0.3659	0.3694
		0.3689	0.3839		0.3674	0.3767
	44C	0.3616	0.3663	44D	0.3603	0.3592
		0.3603	0.3592		0.3590	0.3521
		0.3645	0.3622		0.3630	0.3550
		0.3659	0.3694		0.3645	0.3622
	45A	0.3595	0.3770	45B	0.3584	0.3701
		0.3584	0.3701		0.3573	0.3632
		0.3628	0.3733		0.3616	0.3663
		0.3641	0.3804		0.3628	0.3733
	45C	0.3573	0.3632	45D	0.3562	0.3562
		0.3562	0.3562		0.3551	0.3493
		0.3603	0.3592		0.3590	0.3521
		0.3616	0.3663		0.3603	0.3592
	46A	0.3548	0.3736	46B	0.3539	0.3668
		0.3539	0.3668		0.3530	0.3601
		0.3584	0.3701		0.3573	0.3632
		0.3595	0.3770		0.3584	0.3701
	46C	0.3530	0.3601	46D	0.3520	0.3533
		0.3520	0.3533		0.3511	0.3465
		0.3562	0.3562		0.3551	0.3493
		0.3573	0.3632		0.3562	0.3562

CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
5000K	48A	0.3507	0.3724	48B	0.3500	0.3657
		0.3500	0.3657		0.3492	0.3591
		0.3542	0.3692		0.3533	0.3624
		0.3551	0.3760		0.3542	0.3692
	48C	0.3492	0.3591	48D	0.3485	0.3524
		0.3485	0.3524		0.3477	0.3458
		0.3523	0.3555		0.3514	0.3487
		0.3533	0.3624		0.3523	0.3555
	49A	0.3463	0.3687	49B	0.3457	0.3622
		0.3457	0.3622		0.3452	0.3558
		0.3500	0.3657		0.3492	0.3591
		0.3507	0.3724		0.3500	0.3657
	49C	0.3452	0.3558	49D	0.3446	0.3493
		0.3446	0.3493		0.3440	0.3428
		0.3485	0.3524		0.3477	0.3458
		0.3492	0.3591		0.3485	0.3524
	51A	0.3420	0.3652	51B	0.3415	0.3588
		0.3415	0.3588		0.3411	0.3525
		0.3457	0.3622		0.3452	0.3558
		0.3463	0.3687		0.3457	0.3622
	51C	0.3411	0.3525	51D	0.3407	0.3462
		0.3407	0.3462		0.3403	0.3399
		0.3446	0.3493		0.3440	0.3428
		0.3452	0.3558		0.3446	0.3493
	52A	0.3376	0.3616	52B	0.3374	0.3554
		0.3374	0.3554		0.3371	0.3493
		0.3415	0.3588		0.3411	0.3525
		0.3420	0.3652		0.3415	0.3588
	52C	0.3371	0.3493	52D	0.3369	0.3431
		0.3369	0.3431		0.3366	0.3369
		0.3407	0.3462		0.3403	0.3399
		0.3411	0.3525		0.3407	0.3462



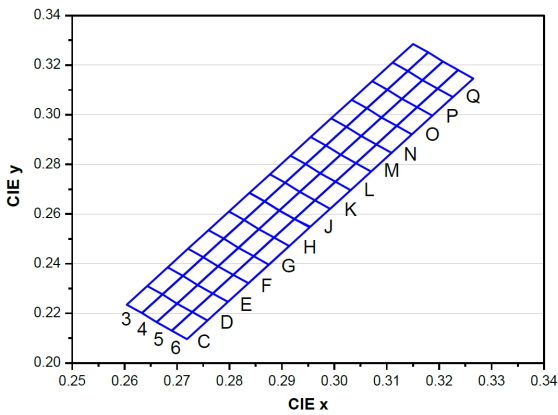
Bin Range of Chromaticity Coordinates Specifications

CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
5700K	53A	0.3334	0.3578	53B	0.3333	0.3518
		0.3333	0.3518		0.3332	0.3458
		0.3374	0.3554		0.3371	0.3493
		0.3376	0.3616		0.3374	0.3554
	53C	0.3332	0.3458	53D	0.3331	0.3398
		0.3331	0.3398		0.3330	0.3338
		0.3369	0.3431		0.3366	0.3369
		0.3371	0.3493		0.3369	0.3431
	55A	0.3292	0.3539	55B	0.3293	0.3481
		0.3293	0.3481		0.3293	0.3423
		0.3333	0.3518		0.3332	0.3458
		0.3334	0.3578		0.3333	0.3518
	55C	0.3293	0.3423	55D	0.3294	0.3364
		0.3294	0.3364		0.3294	0.3306
		0.3331	0.3398		0.3330	0.3338
		0.3332	0.3458		0.3331	0.3398
	57A	0.3250	0.3501	57B	0.3252	0.3444
		0.3252	0.3444		0.3254	0.3388
		0.3293	0.3481		0.3293	0.3423
		0.3292	0.3539		0.3293	0.3481
	57C	0.3254	0.3388	57D	0.3256	0.3331
		0.3256	0.3331		0.3258	0.3275
		0.3294	0.3364		0.3294	0.3306
		0.3293	0.3423		0.3294	0.3364
	59A	0.3207	0.3462	59B	0.3211	0.3407
		0.3211	0.3407		0.3215	0.3353
		0.3252	0.3444		0.3254	0.3388
		0.3250	0.3501		0.3252	0.3444
	59C	0.3215	0.3353	59D	0.3218	0.3298
		0.3218	0.3298		0.3222	0.3243
		0.3256	0.3331		0.3258	0.3275
		0.3254	0.3388		0.3256	0.3331

CCT	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
6500K	61A	0.3160	0.3437	61B	0.3166	0.3384
		0.3166	0.3384		0.3172	0.3331
		0.3209	0.3426		0.3213	0.3371
		0.3205	0.3481		0.3209	0.3426
	61C	0.3172	0.3331	61D	0.3178	0.3277
		0.3178	0.3277		0.3184	0.3224
		0.3217	0.3316		0.3221	0.3261
		0.3213	0.3371		0.3217	0.3316
	63A	0.3115	0.3393	63B	0.3123	0.3342
		0.3123	0.3342		0.3131	0.3290
		0.3166	0.3384		0.3172	0.3331
		0.3160	0.3437		0.3166	0.3384
	63C	0.3131	0.3290	63D	0.3138	0.3239
		0.3138	0.3239		0.3146	0.3187
		0.3178	0.3277		0.3184	0.3224
		0.3172	0.3331		0.3178	0.3277
	66A	0.3072	0.3349	66B	0.3080	0.3299
		0.3080	0.3299		0.3089	0.3249
		0.3123	0.3342		0.3131	0.3290
		0.3115	0.3393		0.3123	0.3342
	66C	0.3089	0.3249	66D	0.3098	0.3200
		0.3098	0.3200		0.3107	0.3150
		0.3138	0.3239		0.3146	0.3187
		0.3131	0.3290		0.3138	0.3239
	68A	0.3028	0.3304	68B	0.3038	0.3256
		0.3038	0.3256		0.3048	0.3209
		0.3080	0.3299		0.3089	0.3249
		0.3072	0.3349		0.3080	0.3299
	68C	0.3048	0.3209	68D	0.3058	0.3161
		0.3058	0.3161		0.3068	0.3113
		0.3098	0.3200		0.3107	0.3150
		0.3089	0.3249		0.3098	0.3200

AUTOMOTIVE
BIN SELECTION

Interior / Backlight



Bin Range of Chromaticity Coordinates Specifications

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
Q3	0.3140	0.3176	J3	0.2867	0.2651
	0.3111	0.3210		0.2838	0.2685
	0.3150	0.3285		0.2877	0.2760
	0.3179	0.3251		0.2906	0.2726
P3	0.3101	0.3101	Q4	0.3168	0.3139
	0.3072	0.3135		0.3140	0.3176
	0.3111	0.3210		0.3179	0.3251
	0.3140	0.3176		0.3207	0.3214
O3	0.3062	0.3026	P4	0.3129	0.3064
	0.3033	0.3060		0.3101	0.3101
	0.3072	0.3135		0.3140	0.3176
	0.3101	0.3101		0.3168	0.3139
N3	0.3023	0.2951	O4	0.3090	0.2989
	0.2994	0.2985		0.3062	0.3026
	0.3033	0.3060		0.3101	0.3101
	0.3062	0.3026		0.3129	0.3064
M3	0.2984	0.2876	N4	0.3051	0.2914
	0.2955	0.2910		0.3023	0.2951
	0.2994	0.2985		0.3062	0.3026
	0.3023	0.2951		0.3090	0.2989
L3	0.2945	0.2801	M4	0.3012	0.2839
	0.2916	0.2835		0.2984	0.2876
	0.2955	0.2910		0.3023	0.2951
	0.2984	0.2876		0.3051	0.2914
K3	0.2906	0.2726	L4	0.2973	0.2764
	0.2877	0.2760		0.2945	0.2801
	0.2916	0.2835		0.2984	0.2876
	0.2945	0.2801		0.3012	0.2839

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
K4	0.2934	0.2689	P6	0.3187	0.2996
	0.2906	0.2726		0.3158	0.3030
	0.2945	0.2801		0.3197	0.3105
	0.2973	0.2764		0.3226	0.3071
J4	0.2895	0.2614	O6	0.3148	0.2921
	0.2867	0.2651		0.3119	0.2955
	0.2906	0.2726		0.3158	0.3030
	0.2934	0.2689		0.3187	0.2996
Q5	0.3197	0.3105	N6	0.3109	0.2846
	0.3168	0.3139		0.3080	0.2880
	0.3207	0.3214		0.3119	0.2955
	0.3236	0.3180		0.3148	0.2921
P5	0.3158	0.3030	M6	0.3070	0.2771
	0.3129	0.3064		0.3041	0.2805
	0.3168	0.3139		0.3080	0.2880
	0.3197	0.3105		0.3109	0.2846
O5	0.3119	0.2955	L6	0.3031	0.2696
	0.3090	0.2989		0.3002	0.2730
	0.3129	0.3064		0.3041	0.2805
	0.3158	0.3030		0.3070	0.2771
N5	0.3080	0.2880	K6	0.2992	0.2621
	0.3051	0.2914		0.2963	0.2655
	0.3090	0.2989		0.3002	0.2730
	0.3119	0.2955		0.3031	0.2696
M5	0.3041	0.2805	J6	0.2953	0.2546
	0.3012	0.2839		0.2924	0.2580
	0.3051	0.2914		0.2963	0.2655
	0.3080	0.2880		0.2992	0.2621
L5	0.3002	0.2730	H3	0.2828	0.2576
	0.2973	0.2764		0.2799	0.2610
	0.3012	0.2839		0.2838	0.2685
	0.3041	0.2805		0.2867	0.2651
K5	0.2963	0.2655	G3	0.2789	0.2501
	0.2934	0.2689		0.2760	0.2535
	0.2973	0.2764		0.2799	0.2610
	0.3002	0.2730		0.2828	0.2576
J5	0.2924	0.2580	F3	0.2750	0.2426
	0.2895	0.2614		0.2721	0.2460
	0.2934	0.2689		0.2760	0.2535
	0.2963	0.2655		0.2789	0.2501
Q6	0.3226	0.3071	E3	0.2711	0.2351
	0.3197	0.3105		0.2682	0.2385
	0.3236	0.3180		0.2721	0.2460
	0.3265	0.3146		0.2750	0.2426

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
D3	0.2672	0.2276	E5	0.2768	0.2280
	0.2643	0.2310		0.2739	0.2314
	0.2682	0.2385		0.2778	0.2389
	0.2711	0.2351		0.2807	0.2355
C3	0.2633	0.2201	D5	0.2729	0.2205
	0.2604	0.2235		0.2700	0.2239
	0.2643	0.2310		0.2739	0.2314
	0.2672	0.2276		0.2768	0.2280
H4	0.2856	0.2539	C5	0.2690	0.2130
	0.2828	0.2576		0.2661	0.2164
	0.2867	0.2651		0.2700	0.2239
	0.2895	0.2614		0.2729	0.2205
G4	0.2817	0.2464	H6	0.2914	0.2471
	0.2789	0.2501		0.2885	0.2505
	0.2828	0.2576		0.2924	0.2580
	0.2856	0.2539		0.2953	0.2546
F4	0.2778	0.2389	G6	0.2875	0.2396
	0.2750	0.2426		0.2846	0.2430
	0.2789	0.2501		0.2885	0.2505
	0.2817	0.2464		0.2914	0.2471
E4	0.2739	0.2314	F6	0.2836	0.2321
	0.2711	0.2351		0.2807	0.2355
	0.2750	0.2426		0.2846	0.2430
	0.2778	0.2389		0.2875	0.2396
D4	0.2700	0.2239	E6	0.2797	0.2246
	0.2672	0.2276		0.2768	0.2280
	0.2711	0.2351		0.2807	0.2355
	0.2739	0.2314		0.2836	0.2321
C4	0.2661	0.2164	D6	0.2758	0.2171
	0.2633	0.2201		0.2729	0.2205
	0.2672	0.2276		0.2768	0.2280
	0.2700	0.2239		0.2797	0.2246
H5	0.2885	0.2505	C6	0.2719	0.2096
	0.2856	0.2539		0.2690	0.2130
	0.2895	0.2614		0.2729	0.2205
	0.2924	0.2580		0.2758	0.2171
G5	0.2846	0.2430			
	0.2817	0.2464			
	0.2856	0.2539			
	0.2885	0.2505			
F5	0.2807	0.2355			
	0.2778	0.2389			
	0.2817	0.2464			
	0.2846	0.2430			



INFRARED LED, SENSORS, COUPLERS, DIGITAL ISOLATOR

206 Infrared LED and Silicon Detector

241 Infrared Receiver Module

248 Optic-Fiber Device (Photo Link)

249 Optical Switch

256 Optical Sensor

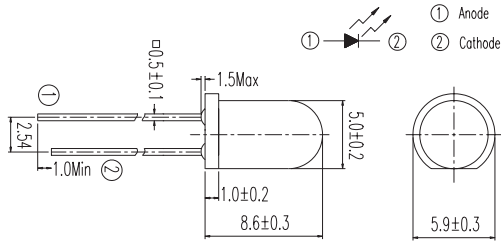
263 Photo Coupler

300 Digital Isolation

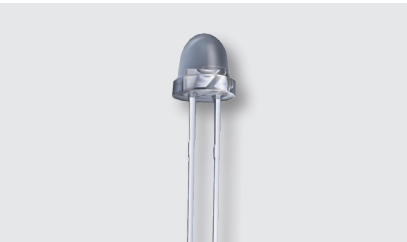
Infrared LED and Silicon Detector I Emitter I Lamp



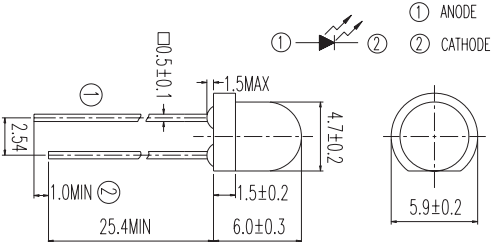
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR333/H0	5	30	1.45	1.65	850	7.8	15
HIR333C/H0	5	30	1.45	1.65	850	7.8	15
IR333-A	5	20	1.2	1.5	940	7.8	20
IR333/H0	5	40	1.2	1.5	940	5.6	7.8
IR333/H0/L10	5	40	1.2	1.5	940	11	12
IR333C	5	20	1.2	1.5	940	7.8	15
IR333C/H0/L10	5	40	1.2	1.5	940	5.6	7.8
IR333C/H2	5	30	1.2	1.5	940	7.8	15
SIR333-A	5	20	1.3	1.6	875	7.8	20



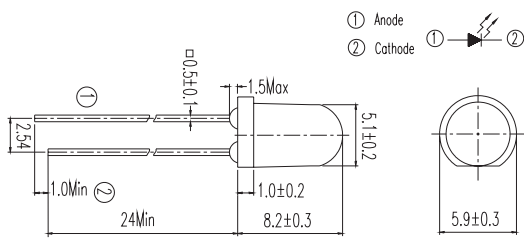
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR323C	5	25	1.45	1.65	850	15	30
HIR323C/H0	5	30	1.45	1.65	850	7.8	11
IR323	5	30	1.2	1.5	940	4	6.4
IR323/H0-A	5	60	1.2	1.5	940	2	3.5
SIR323-5	5	35	1.3	1.6	875	4	7.8

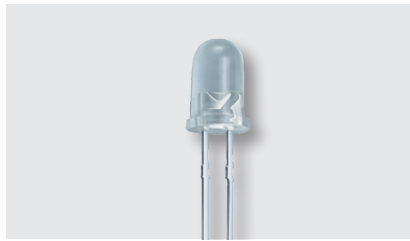


UNIT : mm

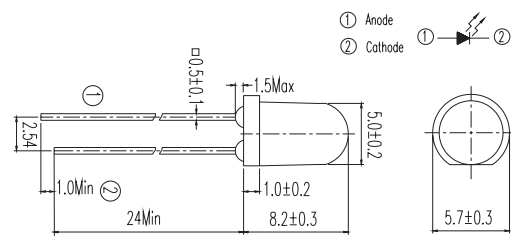


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR7373C	5	40	1.45	1.65	850	7.8	15
IR7373C	5	50	1.2	1.5	940	5.6	8

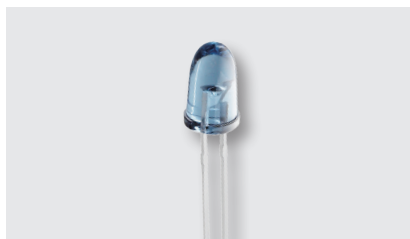
Infrared LED and Silicon Detector | Emitter | Lamp



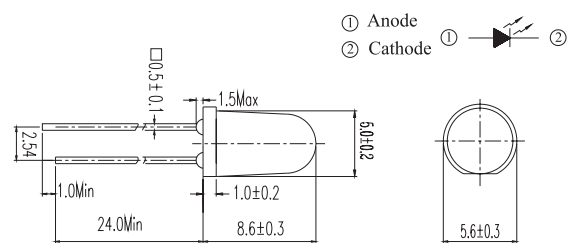
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR7393C	5	50	1.45	1.65	850	7.8	15
IR7393C	5	60	1.2	1.5	940	4	6.5



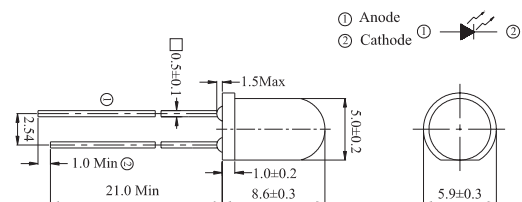
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
IR383	5mm	18	1.2	1.6	940	15	34
HIR383C/L212	5mm	6	1.45	1.65	850	-	140
SIR383C	5mm	20	1.3	1.6	875	11	20



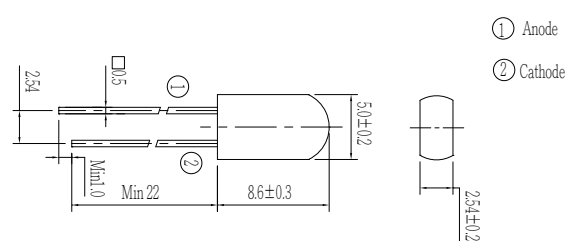
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
IR8353-14C	5	35	1.2	1.3	940	7.8	11

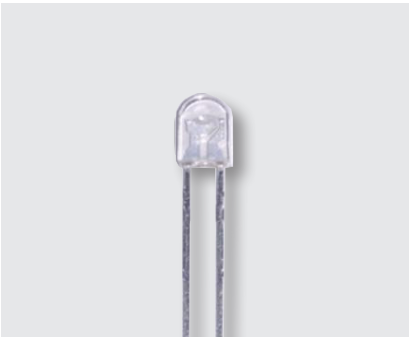


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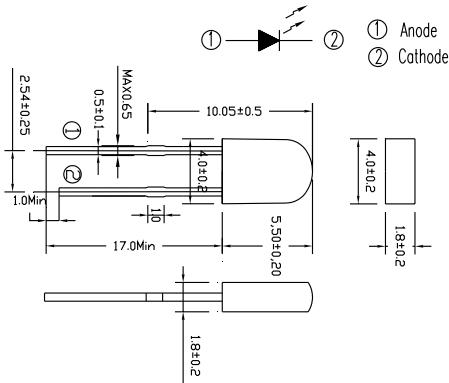


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
IR533C	5	25	1.2	1.5	940	4	7.8

Infrared LED and Silicon Detector I Emitter I Lamp



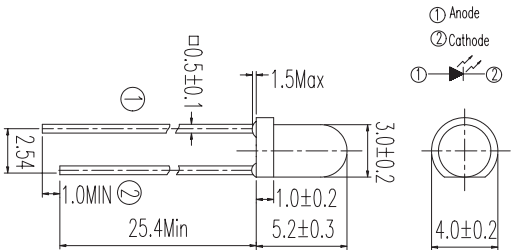
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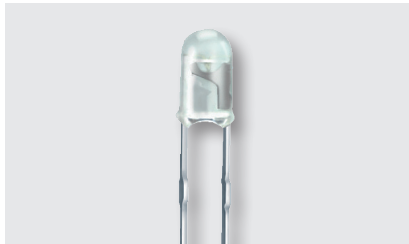
Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
IR3494-30C/H80/L419	4	95(X)45(Y)	1.2	1.5	940	2.5	3.5



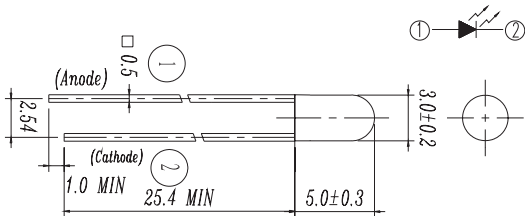
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR204C	3	25	1.45	1.65	850	7.8	17.6
HIR204C/H0	3	40	1.45	1.65	850	4	8.9
IR204-A	3	35	1.2	1.5	940	4	5.6
IR204/H16/L10	3	50	1.2	1.5	940	2.8	4
IR204/H60	3	50	1.2	1.5	940	4	7
IR204C-A	3	35	1.2	1.5	940	4	5.6
IR204C/H16/L10	3	50	1.2	1.5	940	2.8	4
SIR204-A	3	30	1.3	1.6	875	4	6.4
SIR204C	3	30	1.3	1.6	875	4	6.4



UNIT : mm

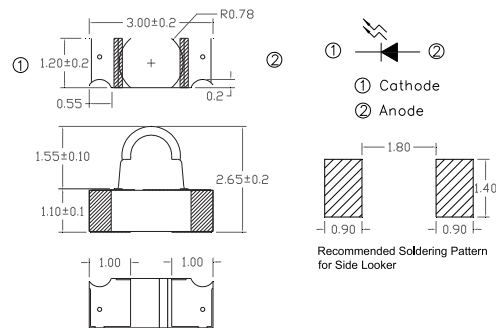


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
SIR234	3	30	1.46	1.65	850	7.8	15
HIR234C	3	30	1.3	1.6	875	5.6	9.3

Infrared LED and Silicon Detector | Emitter | SMD



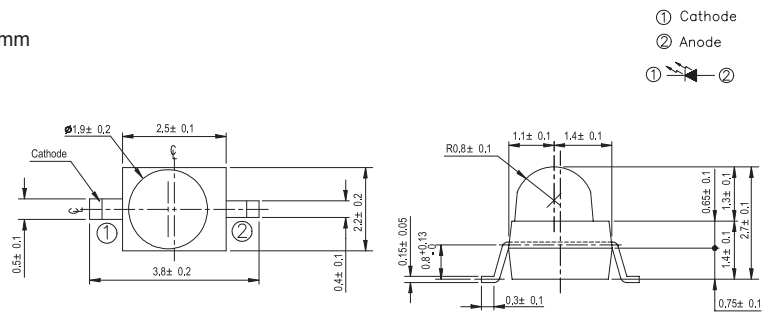
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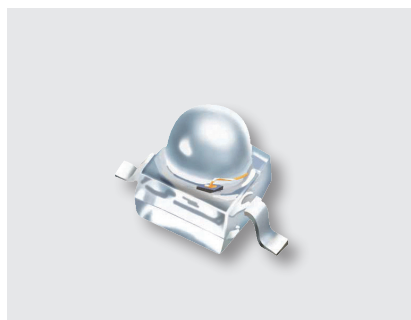
Product	Dimension (mm)	View Angle(°)	V _{F_Type} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Type} (mW/sr)
IR26-61C/L746/R/TR8	3.0x1.2x2.65	20	1.25	1.5	940	4	8



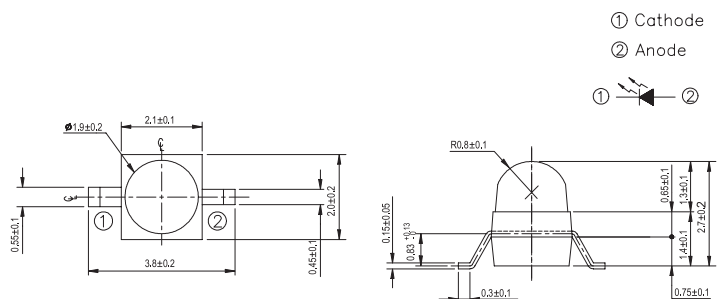
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Type} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Type} (mW/sr)
IR91-21C	2.5x2.2x2.7	25	1.2	1.5	940	3	5
IR91-21C/TR10	2.5x2x2.7	25	1.2	1.5	940	3	5
IR91-21C/TR7	2.5x2x2.7	25	1.2	1.5	940	3	5
SIR91-21C/TR10	2.5x2x2.7	20	1.3	1.6	875	3	5
SIR91-21C/TR7	2.5x2x2.7	20	1.3	1.6	875	3	5



UNIT : mm

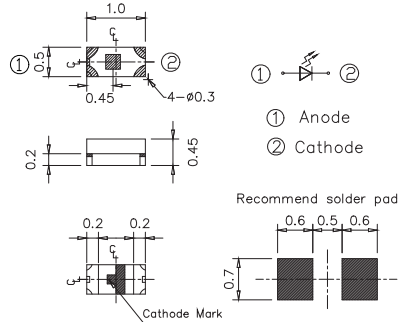


Product	Dimension (mm)	View Angle(°)	V _{F_Type} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Type} (mW/sr)
IR95-21C/TR7	2.1x2.0x2.7	25	1.2	1.5	940	3	5
IR95-21C/L491/TR10	2.1x2.0x2.7	20	1.2	1.5	940	20	30
IR95-21C/TR9	2.1x2.0x2.7	25	1.2	1.5	940	3	5
SIR95-21C/TR10	2.1x2.0x2.7	25	1.3	1.6	875	2	4

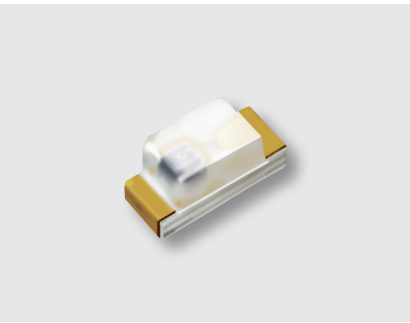
Infrared LED and Silicon Detector I Emitter I SMD



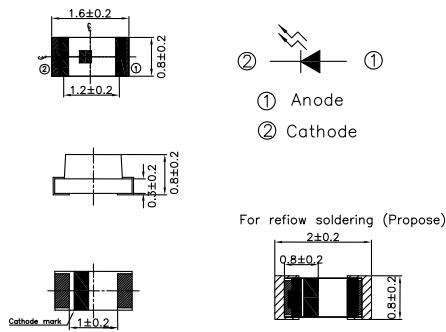
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{F_Min} (mW/sr)	I _{F_Typ} (mW/sr)
HIR16-213C/L423/TR8	1.0x0.5x0.45	145	1.45	1.65	850	0.5	1.5
IR16-213C/L510/TR8	1.0x0.5x0.45	120	1.5	1.9	940	0.5	2.35



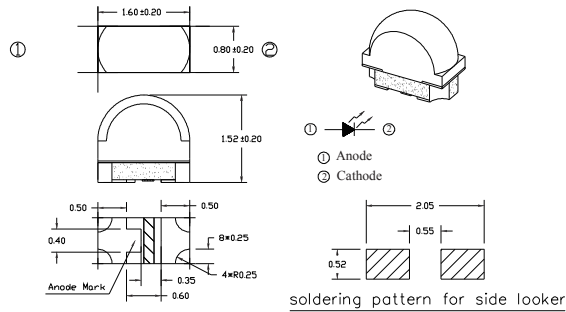
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{F_Min} (mW/sr)	I _{F_Typ} (mW/sr)
HIR19-21C/L11/TR8	1.6x0.8x0.8	145	1.45	1.65	850	0.2	0.8
HIR19-21C/L289/TR8	1.6x0.8x0.8	145	1.45	1.67	850	1	1.85
IR19-21C/TR8	1.6x0.8x0.8	150	1.2	1.5	940	0.2	0.7
SIR19-21C/TR8	1.6x0.8x0.8	145	1.3	1.6	875	0.2	0.5



UNIT : mm

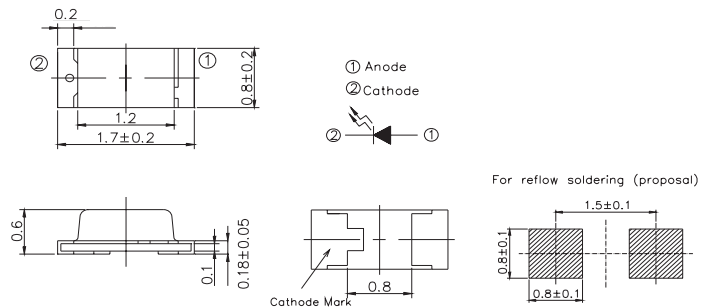


Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{F_Min} (mW/sr)	I _{F_Typ} (mW/sr)
HIR83-01B/TR8	1.6x0.8x1.52	100(X) 40(Y)	1.4	1.7	850	2	5
IR83-01C/2H	1.6x0.8x1.52	115(X) 55(Y)	1.2	1.5	940	2	2.6

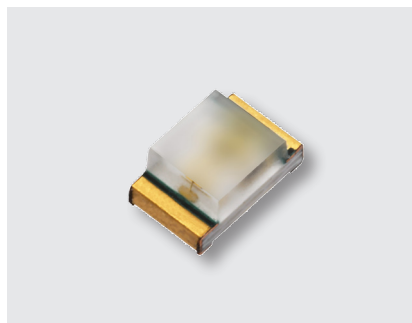
Infrared LED and Silicon Detector I Emitter I SMD



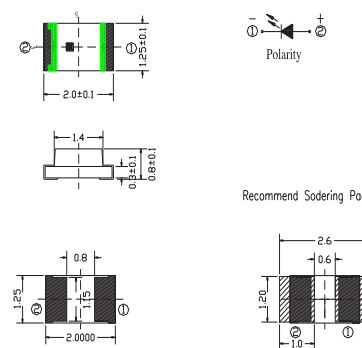
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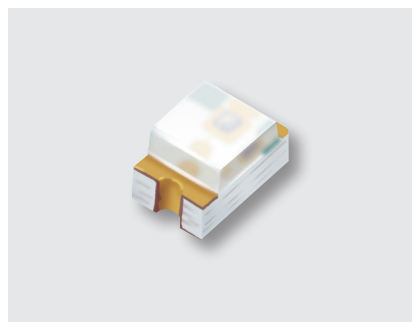
Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
IR19-315C/TR8	1.7x0.8x0.6	140	1.2	1.5	940	0.2	0.6
HIR19-315C/L825/TR8	1.7x0.8x0.6	140	1.4	1.8	850	2.3	2.6
SIR19-315/TR8	1.7x0.8x0.6	140	1.35	1.7	870	1	1.3



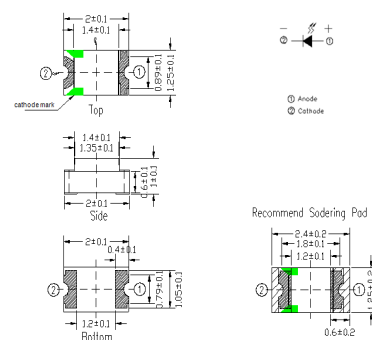
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
HIR17-215C/L289/TR8	2.0x1.25x0.8	140	1.55@100mA	1.8@100mA	850	10@100mA	12@100mA

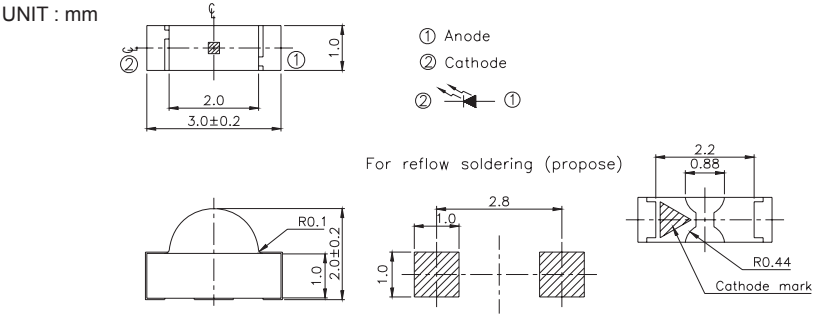
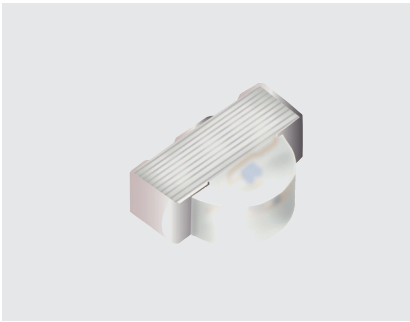


UNIT : mm

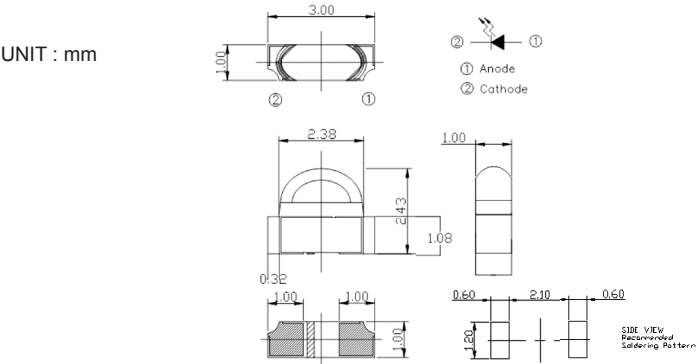


Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
IR17-21C/TR8	2.0x1.25x1	120	1.2	1.5	940	0.2	0.8
HIR17-21C/L289/TR8	2.0x1.25x1	140	1.4	1.7	850	1.6	2

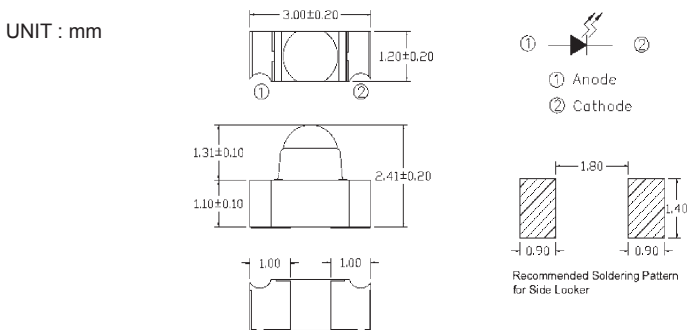
Infrared LED and Silicon Detector I Emitter I SMD



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _F _Min (mW/sr)	I _e _Typ (mW/sr)
HIR12-21C/TR8	3.0x1.0x2.0	145	1.45	1.65	850	0.7	1.3
IR12-21C/TR8	3.0x1.0x2.0	160	1.2	1.5	940	0.5	0.8
SIR12-21C/TR8	3.0x1.0x2.0	160	1.3	1.6	875	0.5	0.9



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _F _Min (mW/sr)	I _e _Typ (mW/sr)
IR26-91C/L510/2D	3.0x1.0x2.43	130(X)20(Y)	1.3	1.6	940	-	8
IR26-91C/2D	3.0x1.0x2.43	130(X)20(Y)	1.2	1.6	940	5	8

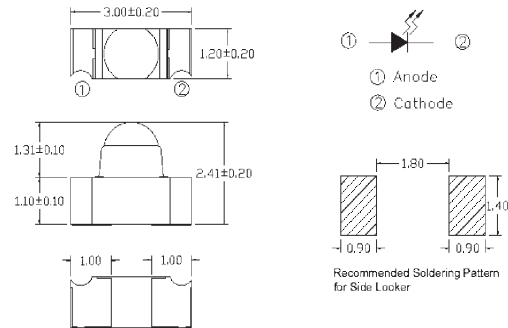


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _F _Min (mW/sr)	I _e _Typ (mW/sr)
IR26-71C/L447/S63/TR8	3.0x1.2x2.4	50	1.3	1.6	940	5	8.5

Infrared LED and Silicon Detector | Emitter | SMD



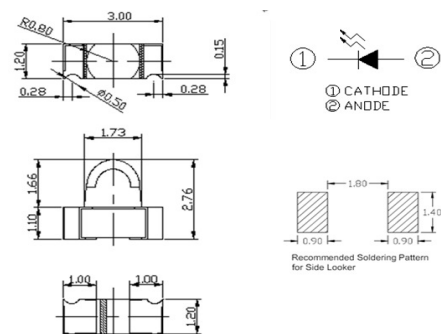
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
IR26-61C/L510/R/2G	3.0x1.2x2.65	20	1.2	1.5	940	10	24
IR26-61C/L745/TR8	3.0x1.2x2.65	30	1.2	1.5	940	13	20
IR26-61C/L746/R/TR8	3.0x1.2x2.65	20	1.25	1.5	940	4	8



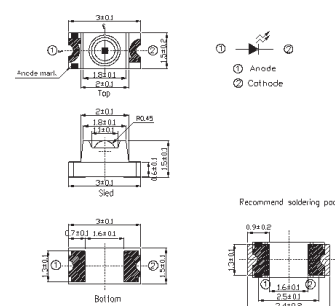
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
IR29-01C/L510/R/TR8	3.0x1.2x2.76	15	1.3	1.6	940	20	25

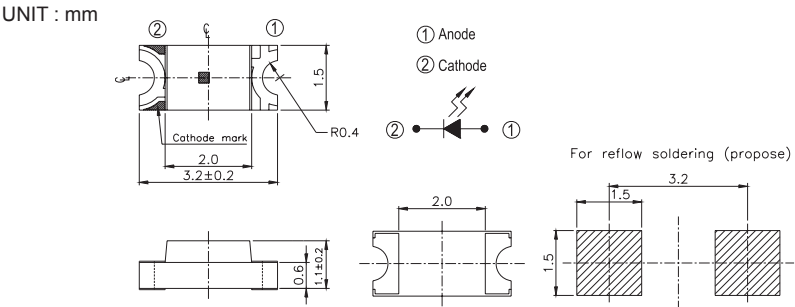


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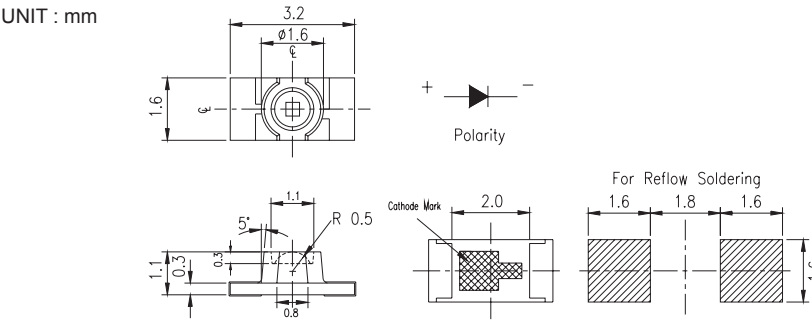


Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
HIR11-21C/L11/TR8	3.0x1.5x1.5	75	1.45	1.65	850	1	2
IR11-21C/L491/TR8	3.0x1.5x1.5	80	1.3	1.7	940	1	2.8
IR11-21C/TR8	3.0x1.5x1.5	100	1.2	1.5	940	0.5	1.6

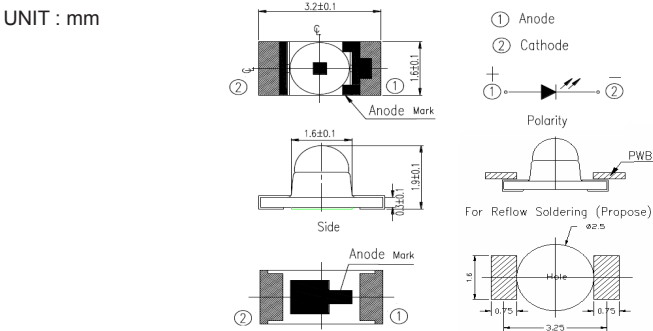
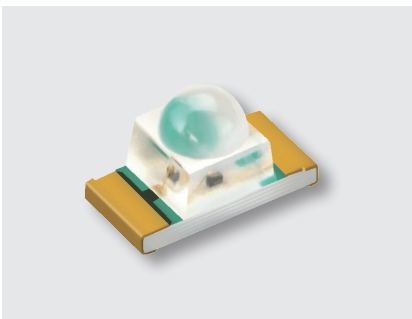
Infrared LED and Silicon Detector I Emitter I SMD



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
IR15-21C/TR8	3.2x1.5x1.1	160	1.2	1.5	940	0.2	0.8
HIR15-21C/TR8	3.2x1.5x1.1	150	1.45	1.65	850	0.5	1.5

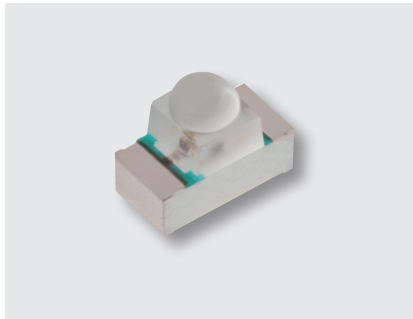


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR25-21C/L289/2T	3.2x1.6x1.0	60	1.4	1.7	850	4	5
HIR25-21C/L423/TR8	3.2x1.6x1.1	70	1.45	1.65	850	3	5.5
IR25-21C/TR8	3.2x1.6x1.1	160	1.2	1.5	940	0.5	1.5

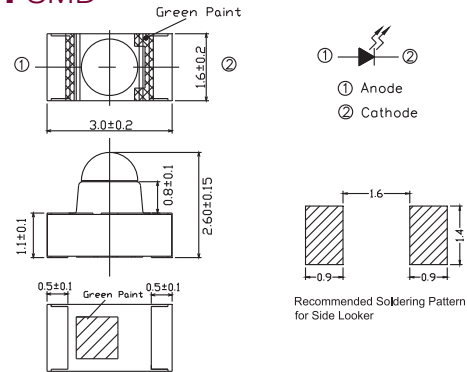


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
HIR26-21C/L289/TR8	3.2x1.6x1.9	25	1.4	1.7	850	10	17
HIR26-21C/L423/TR8	3.2x1.6x1.9	20	1.45	1.7	850	14	16
IR26-21C/L110/TR8	3.2x1.6x1.9	20	1.2	1.5	940	1	3
IR26-21C/L447/CT	3.2x1.6x1.9	25	1.3	1.5	940	11	18

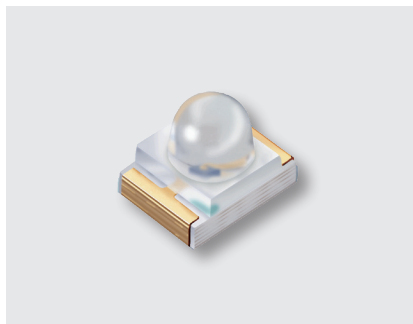
Infrared LED and Silicon Detector | Emitter | SMD



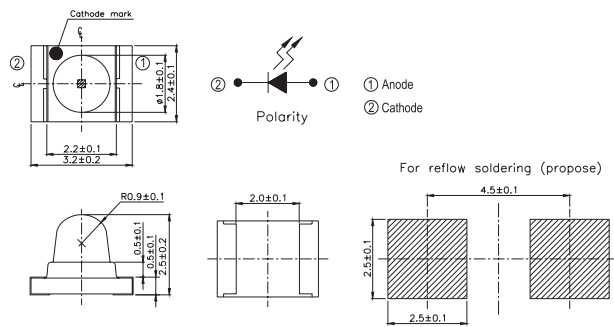
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Typ} (mW/sr) IF=20mA	I _{e_Typ} (mW/sr) IF=100mA
IR26-51C/L110/TR8	3.2x1.6x2.6	20	1.2	1.5	940	1	3.5
IR26-51C/L510/TR8	3.2x1.6x2.6	20	1.3	1.7	940	9	12
HIR26-51C/L423/TR8	3.2x1.6x2.6	25	1.4	1.6	850	9	18



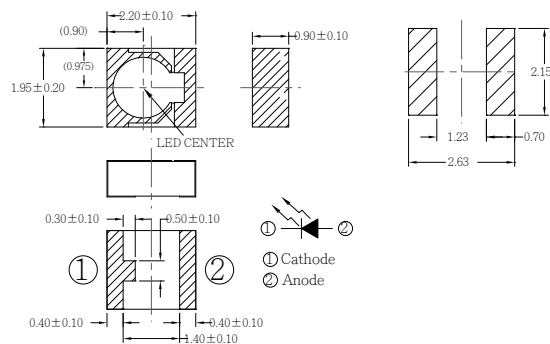
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
IR42-21C/TR8	3.2x2.4x2.5	30	1.2	1.5	940	1	3
HIR42-21C/L289/TR8	3.2x2.4x2.5	20	1.4	1.6	850	11	30



UNIT : mm



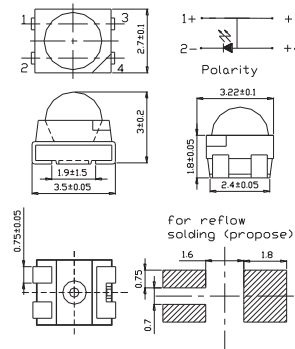
Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
IR91-01C/L491/2R	2.2x1.95x0.90	40	1.4	1.7	940	25@70mA	50@70mA

A 3D rendering of a square metal connector, likely made of stainless steel, featuring a central circular hole and a C-shaped slot on one side. The object is shown from a perspective view against a light gray background.[illegible]216

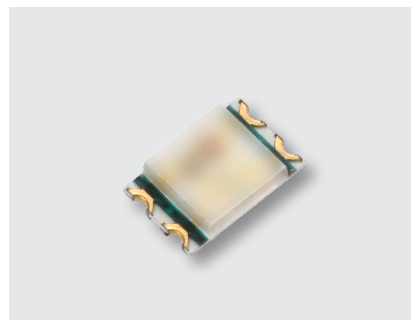
Infrared LED and Silicon Detector | Emitter | SMD



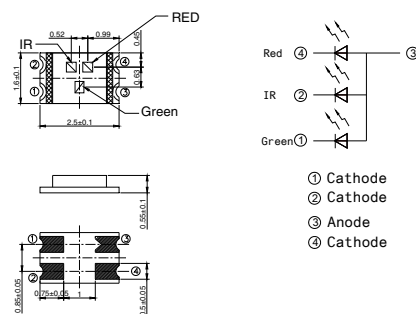
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
HIR67-31JC/L638/TR8	3.5x2.7x3.0	35	2.85	3.3	850	13	20
IR67-41C/L491/TR8	3.5x2.7x1.9	120	1.3	1.6	940	1.5	3.5

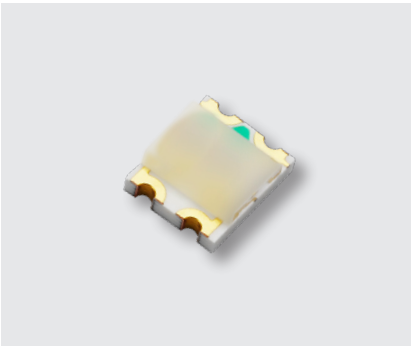


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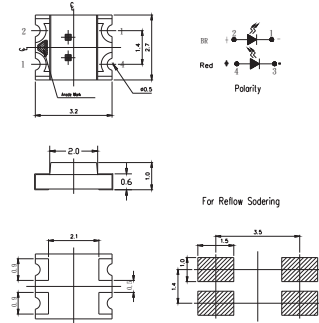


Product	Dimension (mm)	View Angle(°)	V _{F_Typ} (V)	V _{F_Max} (V)	λ _p (nm)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)
B-IRRG1816CW3-L885-TR8	1.8x1.6x0.6	110(IR)110(R) 110(G)	-	1.8(IR)2.5(R) 2.8(G)	940(IR)660(R) 530(G)	7.5(IR)8(R)8(G)	10(IR)13(R)14(G)
B-IRRG2020CW4-L885-3T	2.0x2.0x0.6	110(IR)105(R) 105(G)	1.4(IR)2(R) 2.5(G)	1.7(IR)2.5(R) 3(G)	940(IR)660(R) 530(G)	3(IR)4.5(R) 2000mcd(G)	-
IRRG25-16C/L491/TR8	2.5x1.6x0.55	120	3.0(G)1.9(R) 1.3(IR)	3.5(G)2.5(R) 1.8(IR)	525(G)660(R) 940(IR)	1200mcd(G) 150mcd(R)1.5(IR)	-

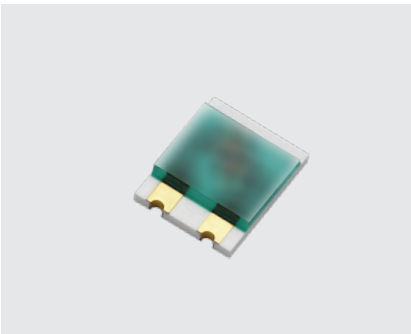
Infrared LED and Silicon Detector ■ Emitter ■ SMD



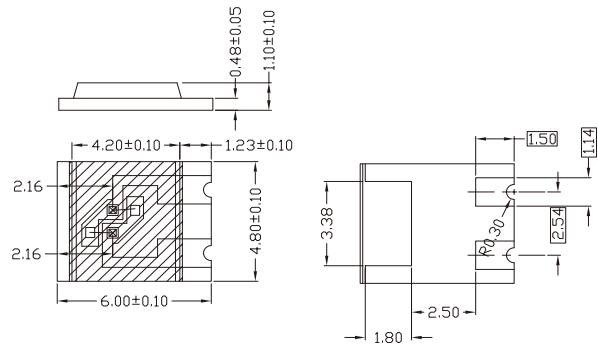
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
BR15-22C/L586/R/TR8	3.2x2.7x1.0	140	1.8(R)1.3(IR)	2.6(R)1.8(IR)	660(R)905(IR)	0.5(R)0.2(IR)	1.5(R)0.5(IR)
IRR15-22C/L491/TR8	3.2x2.7x1.0	120	1.9(R)1.3(IR)	2.5(R)1.7(IR)	660(R)940(IR)	1.0(R)1.0(IR)	2.3(R)2.1(IR)



UNIT : mm

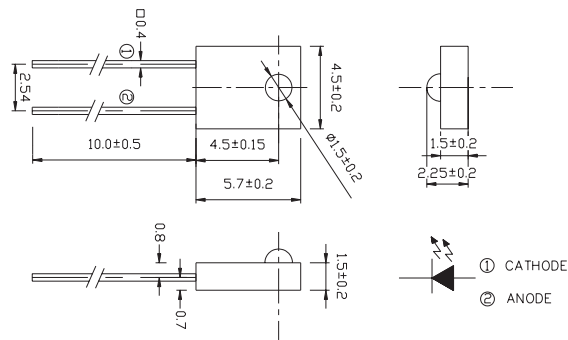


Product	Dimension (mm)	View Angle(°)	V _F _Typ (V)	V _F _Max (V)	λ _p (nm)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)
IRR60-48C/L661/TR8	6.0x4.8x1.1	140(R)130(IR)	2.1(R)1.4(IR)	2.5(R)1.6(IR)	660(R)910(IR)	1.0(R)1.0(IR)	2.3(R)1.5(IR)
IRR60-48C/TR8	6.0x4.8x1.1	140(R)130(IR)	2.1(R)1.4(IR)	2.5(R)1.6(IR)	660(R)905(IR)	1(R)0.5(IR)	2.3(R)1(IR)

Infrared LED and Silicon Detector | Emitter | Side Look



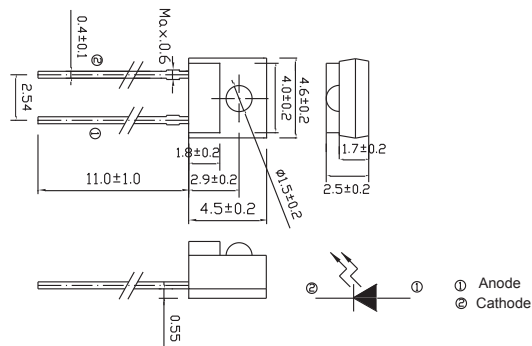
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Type} (V)	V _{F_Max} (V)	λ _p (nm)
IR908-7C-F	4.5x2.25x5.7	40	1.2	1.5	940



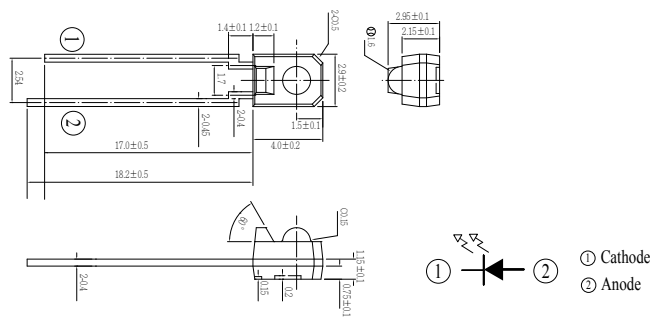
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V _{F_Type} (V)	V _{F_Max} (V)	λ _p (nm)
IR928-6C-F	4.6x2.5x4.5	20	1.2	1.5	940



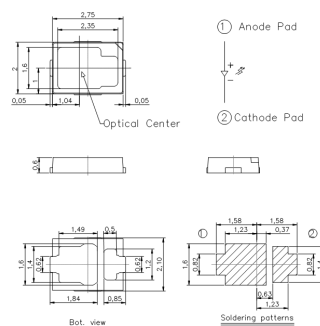
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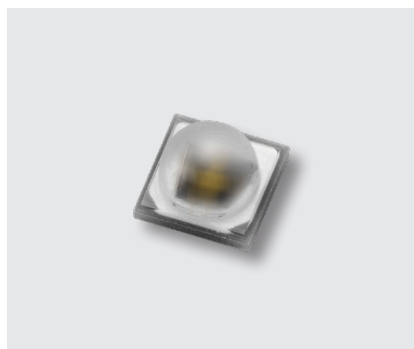
Product	Dimension (mm)	View Angle(°)	V _{F_Type} (V)	V _{F_Max} (V)	λ _p (nm)
IR968-8C	2.9x4.0x2.9	25	1.2	1.5	940

Infrared LED and Silicon Detector ■ Emitter ■ High power

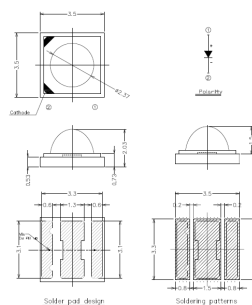
UNIT : mm



Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=1A)	λp(nm)	IE_Typ (mW/sr) (If=1A)	Po_Typ (mW) (If=1A)
IR-S06-P120/L741-P03/TR	2.8x2.0x0.6	120	-	940	-	-

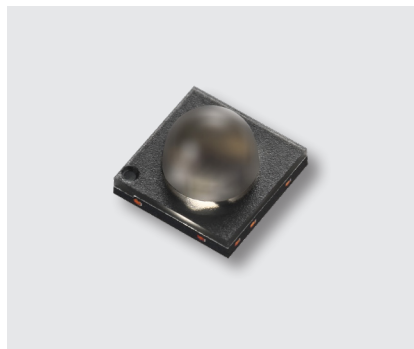


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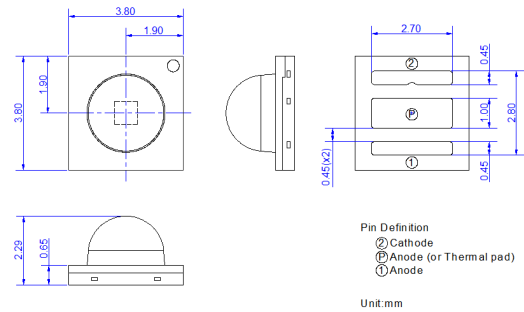


Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=1A)	λp(nm)	IE_Typ (mW/sr) (If=1A)	Po_Typ (mW) (If=1A)
HIR-C19D-1N150/L649-P03/TR	3.5x3.5x1.605	150	3.1	850	270	1100
HIR-C19D-1N90/L649-P03/TR	3.5x3.5x2.36	90	3.5	850	560	1300
HIR-C19D-1N40-L649-P03-TR-AM	3.5x3.5x3.44	40	3.2	850	1100	1240

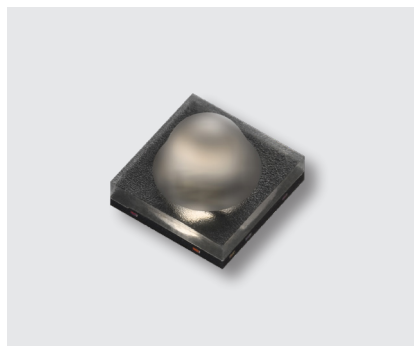
Infrared LED and Silicon Detector ■ Emitter ■ High power



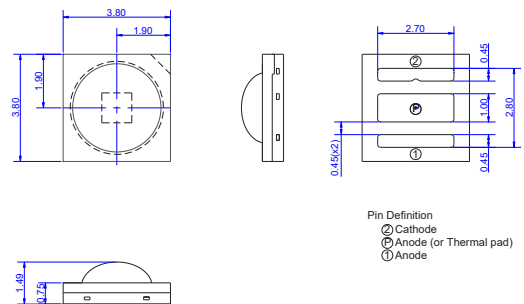
UNIT : mm



Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=1A)	λ_p (nm)	IE_Typ (mW/sr) (If=1A)	Po_Typ (mW) (If=1A)
HC-HIR383823C1/L933-050/06T	3.8x3.8x2.66	50	2	850	950	655
HC-HIR383823C1/L933-080/08T	3.8x3.8x2.29	80	1.8	850	485	750
HC-HIR383823C1/L933-090/08T	3.8x3.8x2.25	90	1.77	850	415	725
HC-HIR383822C1/L933-120/08T	3.8x3.8x2.1	120	1.95	850	240	700
HC-HIR383815C1/L933-150/08T	3.8x3.8x1.49	150	1.95	850	170	700
HC-HIR383815C2/L949-150/08T	3.8x3.8x1.49	150	3.25	850	335	1290
HC-HIR383815C1/L947-150/08T	3.8x3.8x1.49	150	1.7	850	195	785

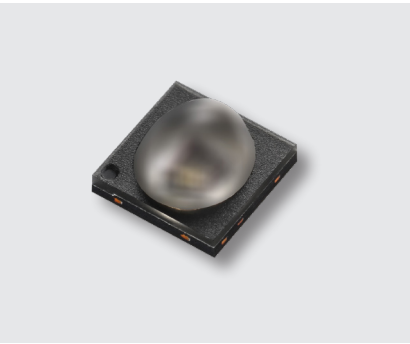


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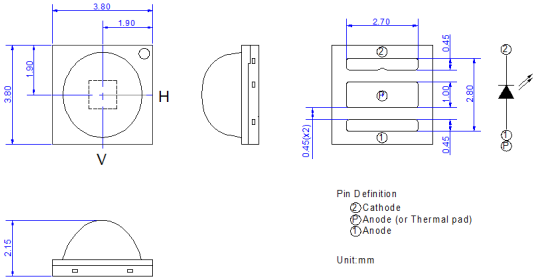


Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=1A)	λ_p (nm)	IE_Typ (mW/sr) (If=1A)	Po_Typ (mW) (If=1A)
HC-IR383827C2/L941-050/06T	3.8x3.8x2.66	50	3.35	940	925	1140
HC-IR383827C2/L741-050/06T	3.8x3.8x2.95	50	2.9	940	1220	1265
HC-IR383828C2/L741-060/06T	3.8x3.8x2.79	60	2.9	940	900	1285
HC-IR383823C2/L741-090/08T	3.8x3.8x2.25	90	3.45	940	730	1220
HC-IR383822C2/L741-120/08T	3.8x3.8x2.1	120	2.9	940	420	1330
HC-IR383823C2/L741-150/08T	3.8x3.8x1.49	150	3.06	940	340	1275
HC-IR383822C1/L743-120/08T	3.8x3.8x2.2	120	1.45	940	230	670
HC-IR383815C1/L743-150/08T	3.8x3.8x1.49	150	1.5	940	160	610

Infrared LED and Silicon Detector ■ Emitter ■ High power



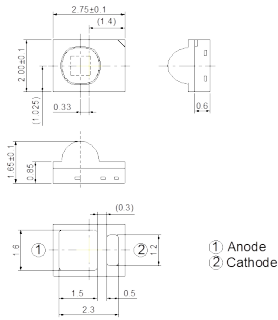
UNIT : mm



Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=1A)	λp(nm)	IE_Typ (mW/sr) (If=1A)	Po_Typ (mW) (If=1A)
HC-HIR383822C1/L933-8012/08T	3.8x3.8x2.15	120/80	1.8	850	310	745



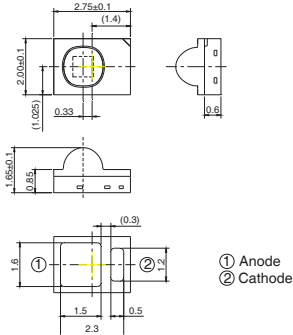
UNIT : mm



Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=1A)	λp(nm)	IE_Typ (mW/sr) (If=1A)	Po_Typ (mW) (If=1A)
HC-IR282017C2/L873-060/08T	2.8x2.0x1.65	60	3.8	940	730	1100



UNIT : mm

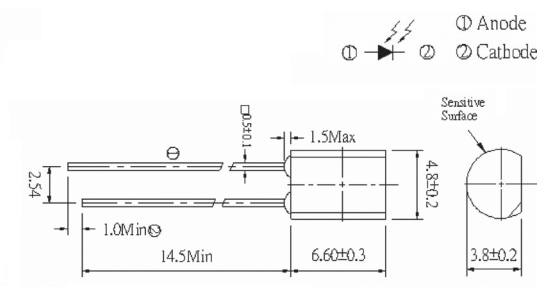


Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (If=800mA)	λp(nm)	Ie_Typ (mW/sr) (If=800mA)	Po_Typ (mW) (If=800mA)
HC-HIR282017C2/L913-060/08T	2.8x2.0x1.65	60	3.3	850	565	650

Infrared LED and Silicon Detector | Photo Diode | Side Look



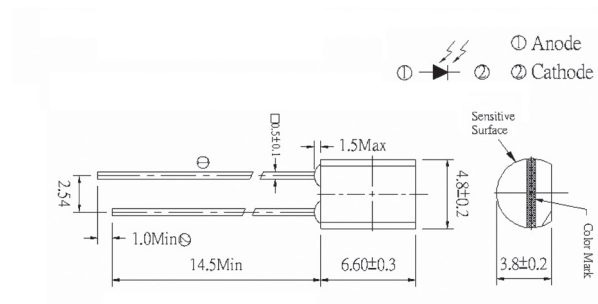
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	I_L _Typ (μ A)	BVR_Min.(V)	ID_Max (nA)
PD438B	4.8x3.8x6.6	940	18	32	30
PD438B/S46	4.8x3.8x6.6	940	18	32	30



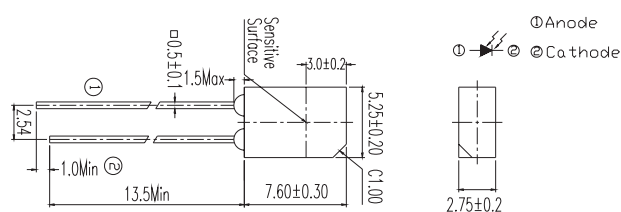
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	I_L _Typ (μ A)	BVR_Min.(V)	ID_Max (nA)
PD438C	4.8x3.8x6.6	940	18	32	30
PD438C/S46	4.8x3.8x6.6	940	18	32	30



UNIT : mm

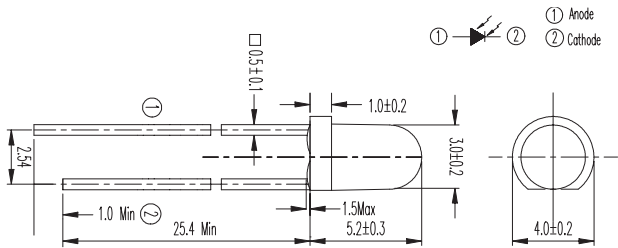


Product	Dimension (mm)	λ_p (nm)	I_L _Typ (μ A)	BVR_Min.(V)	ID_Max (nA)
PD638B	5.2x2.7x7.6	940	18	32	30

Infrared LED and Silicon Detector | Photo Diode | Lamp



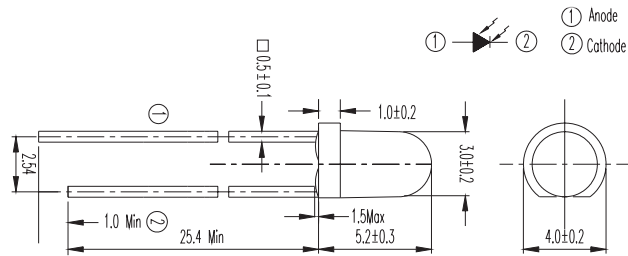
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	I_L _Typ (μA)	BVR_Min.(V)	ID_Max (nA)
PD204-6C	3	940	3.5	32	10
PD204-6C/L3	3	940	10	32	10

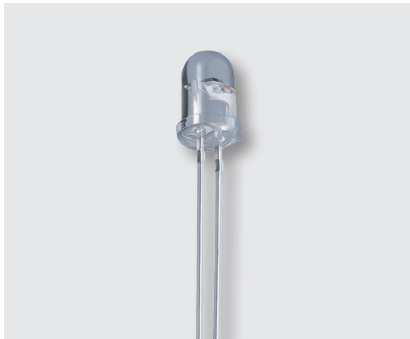


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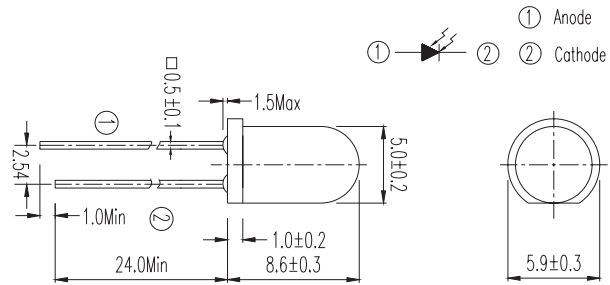


Product	Dimension (mm)	λ_p (nm)	I_L _Typ (μA)	BVR_Min.(V)	ID_Max (nA)
PD204-6B	3	940	3	32	10
PD204-6B/L3	3	940	6	32	10

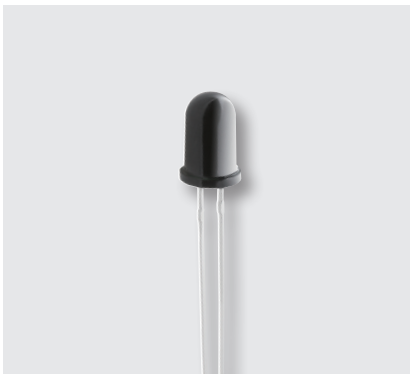
Infrared LED and Silicon Detector | Photo Diode | Lamp



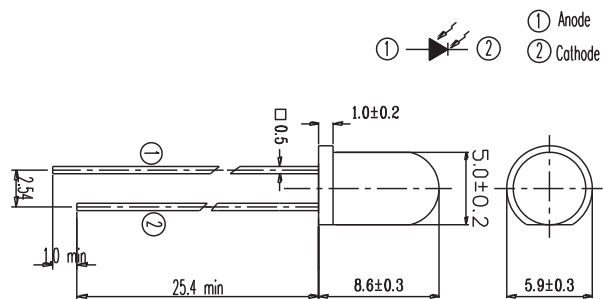
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	I _L _Typ (μA)	BVR_Min.(V)	ID_Max (nA)
PD333-3C/L793	5	940	33	30	10
PD333-3C/H0/L2	5	940	40	32	30
PD333-3C/H0/L811	5	940	60	35	10

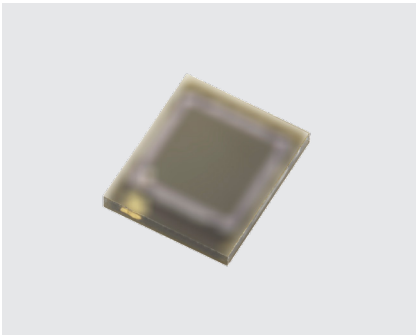


UNIT : mm

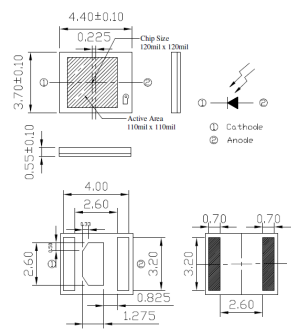


Product	Dimension (mm)	λ_p (nm)	I _L _Typ (μA)	BVR_Min.(V)	ID_Max (nA)
PD333-3B/L1	5	940	min. 15	32	30
PD333-3B/L2	5	940	35	32	30
PD333-3B/L3	5	940	min. 10	32	10
PD333-3B/L4	5	940	12	32	10
PD333-3B/H0/L2	5	940	35	32	30

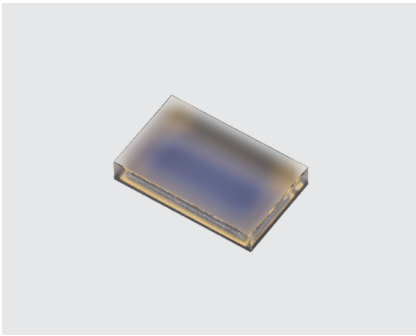
Infrared LED and Silicon Detector | Photo Diode | SMD



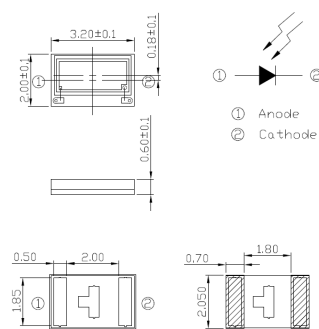
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Product	Dimension (mm)	λ_p (nm)	$I_{L_min_}$ (μ A)	$I_{L_typ_}$ (μ A)	B_{VR} (V)
PD44-37C-L753-TR8	4.4x3.7x0.55	880(400~1100)	(IR):29, (R):34, (G):38	(IR):42 (R):39 (G):33	32



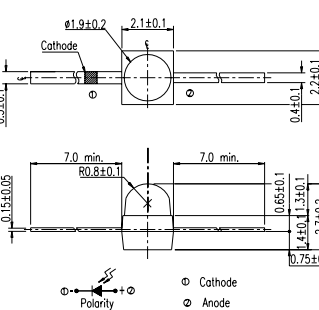
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{L_min_}$ (μ A)	$I_{L_typ_}$ (μ A)	B_{VR} (V)
B-PD322006C1/L917/135/3T	3.2x2.0x0.6	820(400~1100)	(IR):8, (R):10, (G):11	(IR):14 (R):16 (G):13	65



UNIT : mm

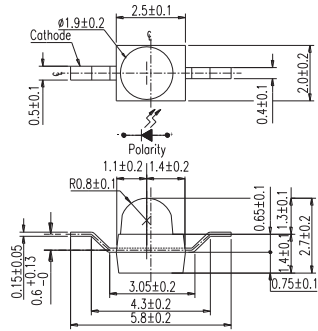


Product	Dimension (mm)	λ_p (nm)	$I_{L_min_}$ (μ A)	$I_{L_typ_}$ (μ A)	B_{VR} (V)
PD95-21B/TR10	2.1x2x2.7	940	1	4	32

Infrared LED and Silicon Detector | Photo Diode | SMD



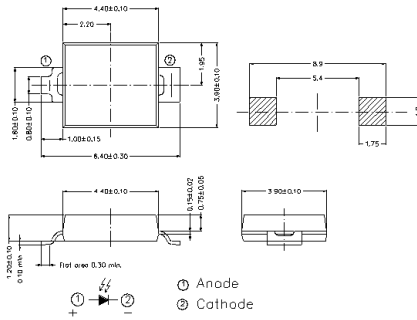
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{l_min_}$ (uA)	$I_{l_typ_}$ (uA)	B_{VR} (V)
PD91-21B/TR9	2.5x2.2x2.7	940	-	5	32



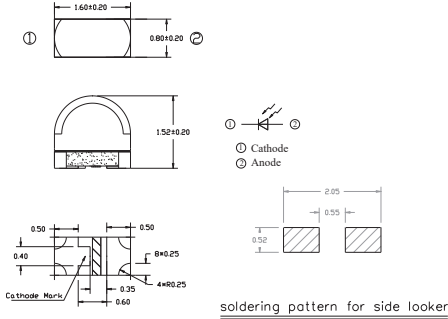
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Product	Dimension (mm)	λ_p (nm)	$I_{l_min_}$ (uA)	$I_{l_typ_}$ (uA)	B_{VR} (V)
PD70-01B/TR7	4.4x3.9x1.2	940	17	25	32



UNIT : mm

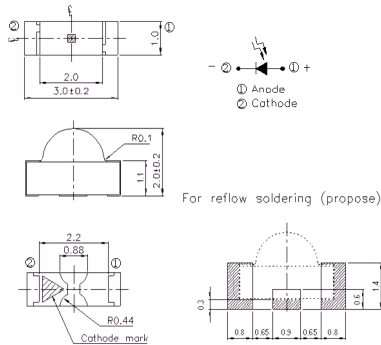


Product	Dimension (mm)	λ_p (nm)	$I_{l_min_}$ (uA)	$I_{l_typ_}$ (uA)	B_{VR} (V)
PD83-01B/L458/2H	1.6x0.8x1.52	940	1.14	2.4	32

Infrared LED and Silicon Detector | Photo Diode | SMD



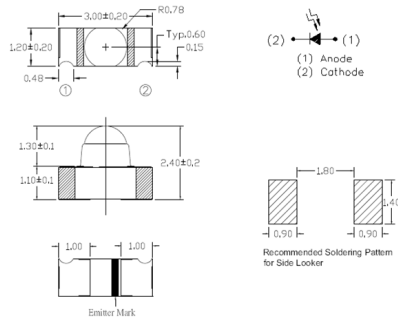
UNIT : mm



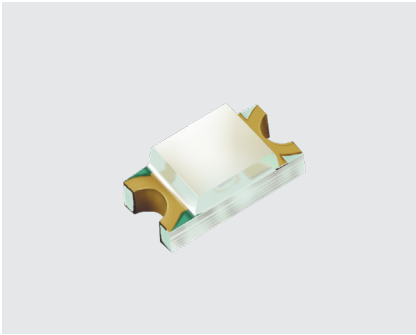
Product	Dimension (mm)	λ_p (nm)	I_{L_min} (μ A)	I_{L_typ} (μ A)	B_{VR} (V)
PD12-21B/TR8	3.0x1.0x2.0	940	0.7	1.5	32



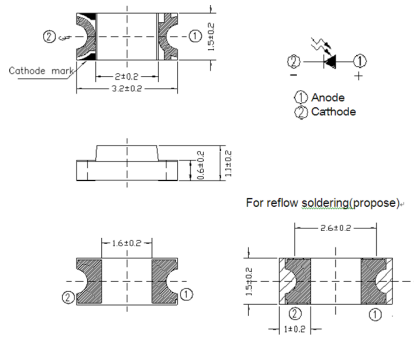
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	I_{L_min} (μ A)	I_{L_typ} (μ A)	B_{VR} (V)
PD26-71B/S63/TR8	3.0x1.2x2.4	940	0.7	2	32

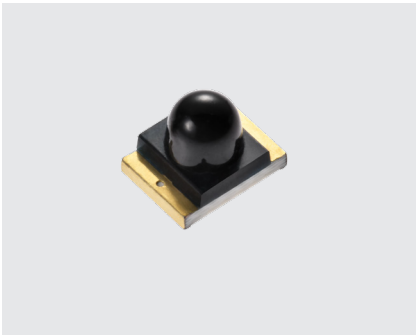


UNIT : mm

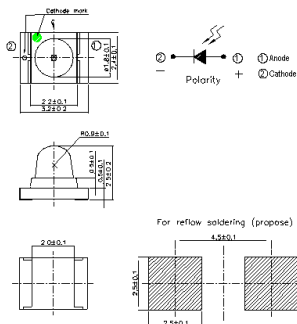


Product	Dimension (mm)	λ_p (nm)	I_{L_min} (μ A)	I_{L_typ} (μ A)	B_{VR} (V)
PD15-21C/TR8	3.2x1.5x1.1	940	0.2	0.9	32

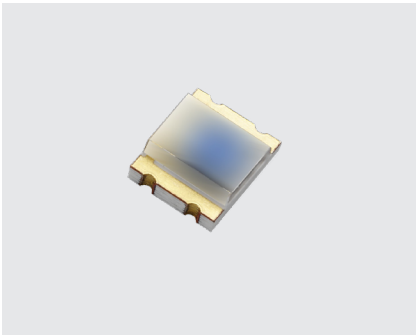
Infrared LED and Silicon Detector | Photo Diode | SMD



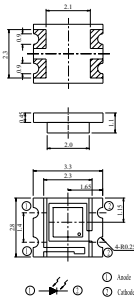
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{l_min_}$ (uA)	$I_{l_typ_}$ (uA)	B_{VR} (V)
PD42-21C/TR8	3.2x2.4x2.5	940	2	5	32



UNIT : mm



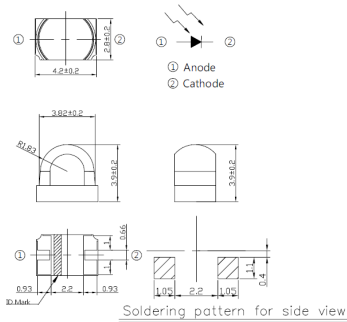
Product	Dimension (mm)	λ_p (nm)	$I_{l_min_}$ (uA)	$I_{l_typ_}$ (uA)	B_{VR} (V)
PD15-22C/TR8	3.2x2.7x1.1	940	4.2	10	32

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Diode | SMD



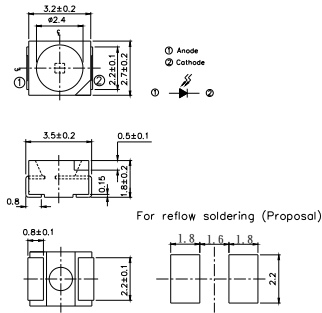
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{L_min_}$ (uA)	$I_{L_typ_}$ (uA)	B_{VR} (V)
PD28-01B/L609/2C	4.2x2.8x3.9	940	20	25	32



UNIT : mm

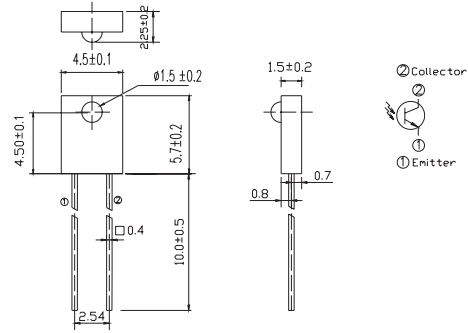


Product	Dimension (mm)	λ_p (nm)	$I_{L_min_}$ (uA)	$I_{L_typ_}$ (uA)	B_{VR} (V)
PD67-21B/TR8	3.5x2.7x1.9	940	1	1.65	32

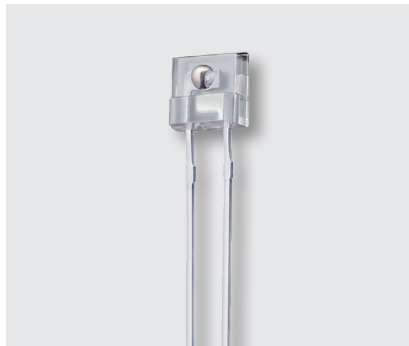
Infrared LED and Silicon Detector ■ Photo Transistor ■ Side Look



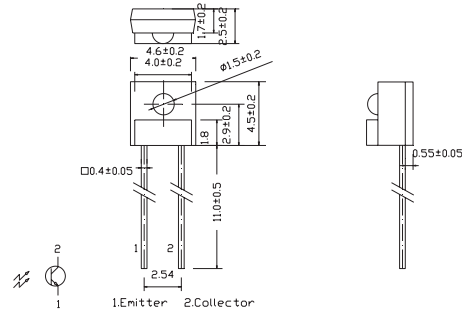
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT908-7C-F	4.5x2.25x5.7	940	15/15	0.4	min. 0.8
PT908-7B-F	4.5x2.25x5.7	940	15/15	0.4	min. 0.8



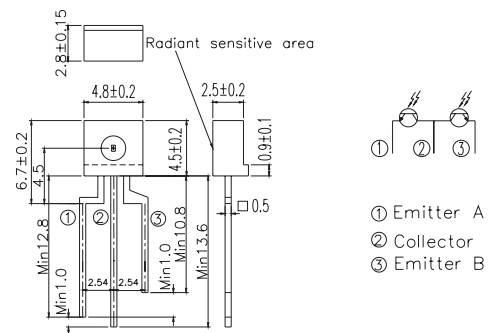
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT928-6B-F	4.6x2.5x4.5	940	15/15	0.4	2
PT928-6C-F	4.6x2.5x4.5	940	15/15	0.4	min. 0.7

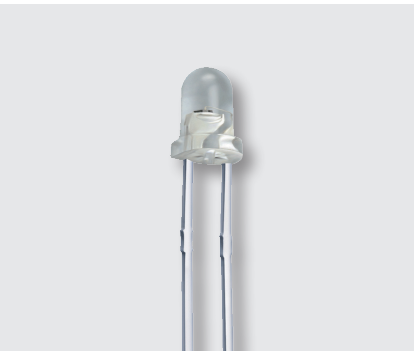


UNIT : mm

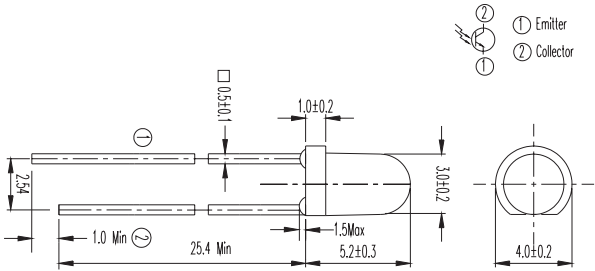


Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT2559B/L2-F	4.8x2.8x4.5	940	15/15	0.4	min. 0.129
PT2559B/L2/H2-F	4.8x2.8x4.5	940	15/15	0.4	min. 0.129

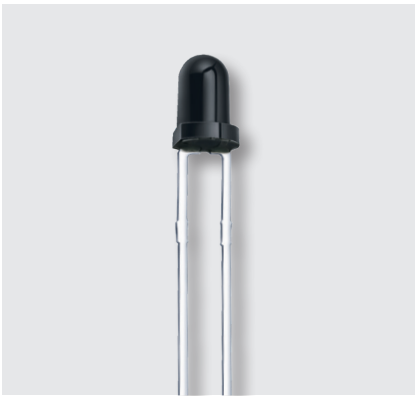
Infrared LED and Silicon Detector | Photo Transistor | Lamp



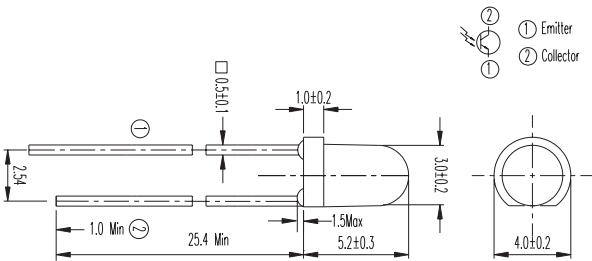
UNIT : mm



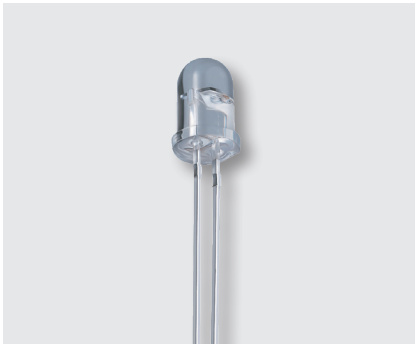
Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT204-6C	3	940	15/15	0.4	2



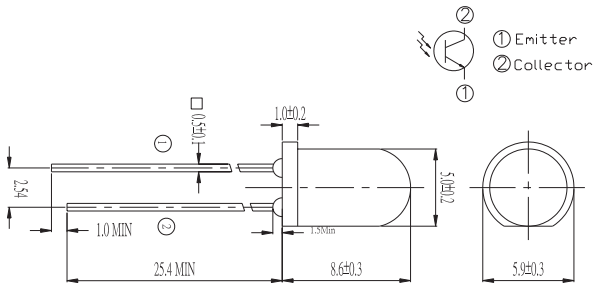
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT204-6B	3	940	15/15	0.4	min. 0.7



UNIT : mm



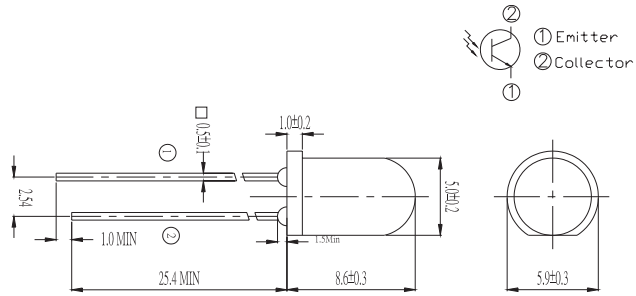
Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT333-3C	5	940	15/15	0.4	4

Infrared LED and Silicon Detector | Photo Transistor | Lamp

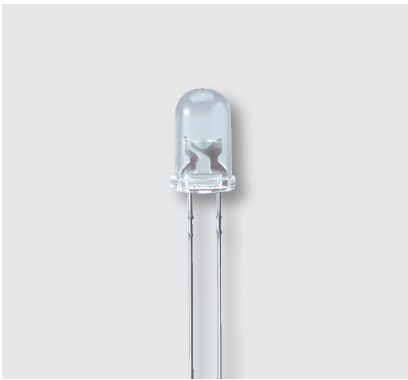
Infrared LED and Silicon Detector



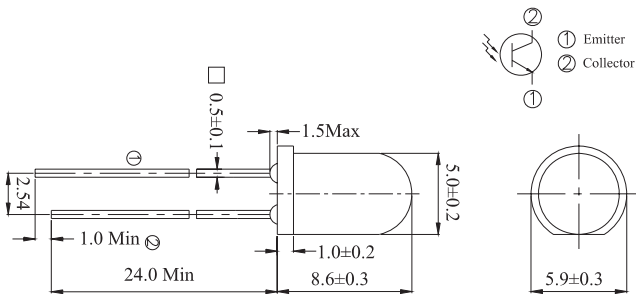
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT333-3B	5	940	15/15	0.4	3



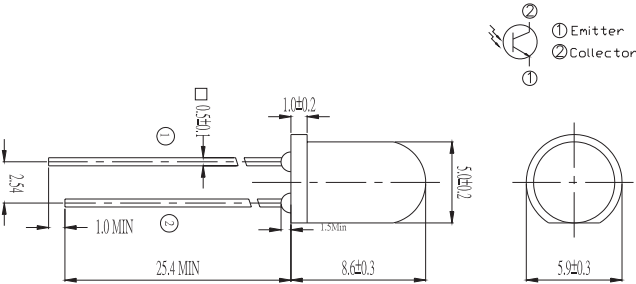
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT334-6C	5	940	15/15	0.4	3.5



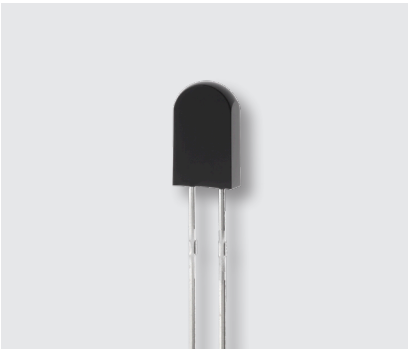
UNIT : mm



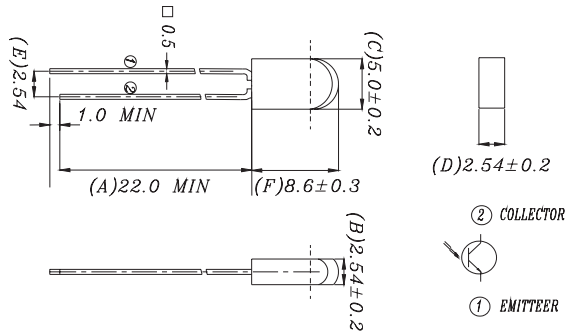
Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT334-6B	5	940	15/15	0.4	2

Infrared LED and Silicon Detector | Photo Transistor | Lamp

Infrared LED and Silicon Detector



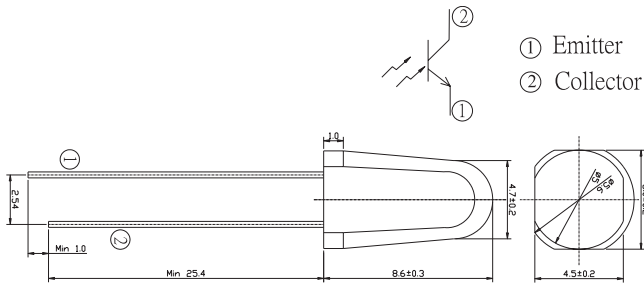
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT534-6B	5	980	15/15	0.4	1.2



UNIT : mm

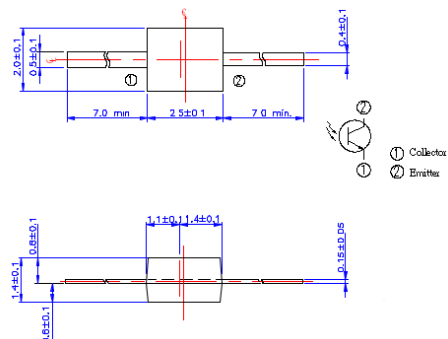


Product	Dimension (mm)	λ_p (nm)	Rise / Fall Time (μ S)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Typ)}$ (mA)
PT1504-6B	5	940	15/15	0.4	4

Infrared LED and Silicon Detector | Photo Transistor | SMD



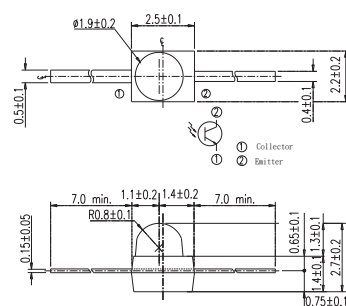
UNIT : mm



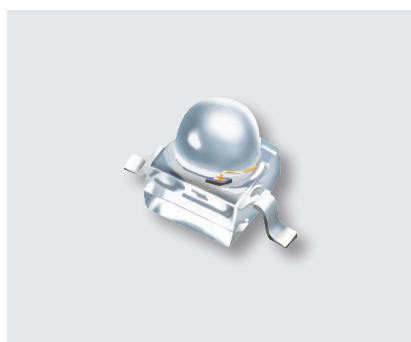
Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT28-21B	2.5x2.0x1.4	940	0.1	0.3	0.4



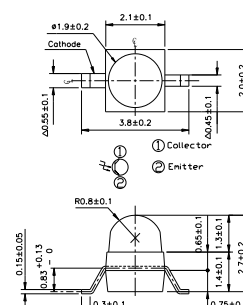
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT91-21B/L369/TR10	2.5x2.0x2.7	940	2.5	4.5	0.4

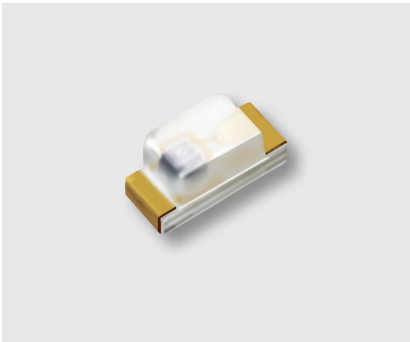


UNIT : mm

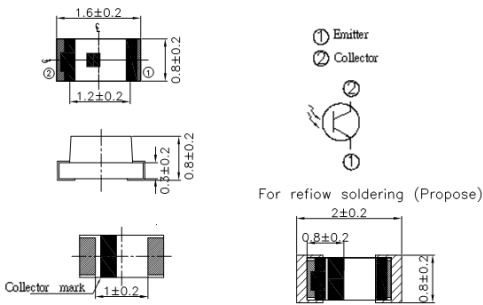


Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT95-21C/TR7	2.1x2.0x2.7	940	1	1.5	0.4

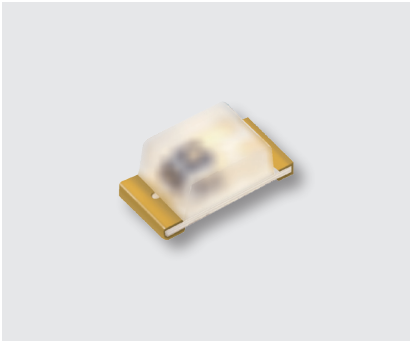
Infrared LED and Silicon Detector | Photo Transistor | SMD



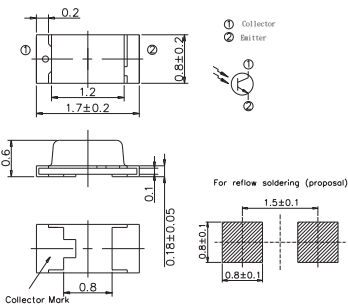
UNIT : mm



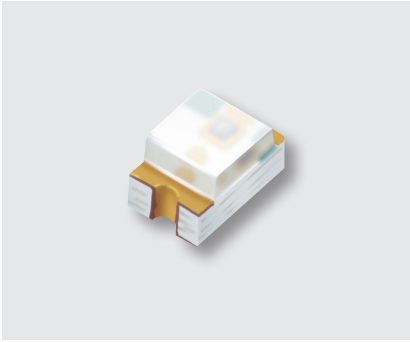
Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT19-21C/L41/TR8	1.6x0.8x0.8	940	0.3	0.6	0.4



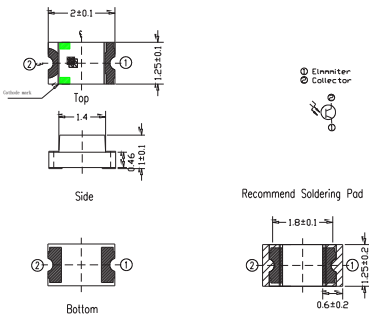
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT19-315C/TR8	1.7x0.8x0.6	940	0.1	1.5	0.4



UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT17-21C/L41/TR8	2.0x1.25x1.0	940	0.3	1	0.4

Figure 1: Dimensional drawings of the components. (a) Top view of the collector (1) showing dimensions: 3.0 ± 0.2, 1.0, 2.0, and 0.5. (b) Side view of the collector (1) showing dimensions: R0.1, 1.1, and 2.0 ± 0.2. (c) Top view of the emitter (2) showing dimensions: 2.2, 0.85, and R0.44. A cathode mark is indicated. (d) Cross-sectional view of the assembly showing dimensions: 0.3, 0.8, 0.65, 0.9, 0.65, 0.9, 0.5, and 1.4. A dashed line indicates the reflow soldering area.



① Collector

② Fan

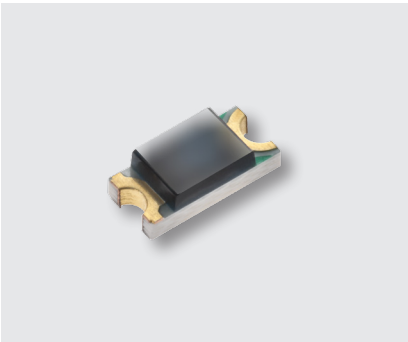
Top

Side

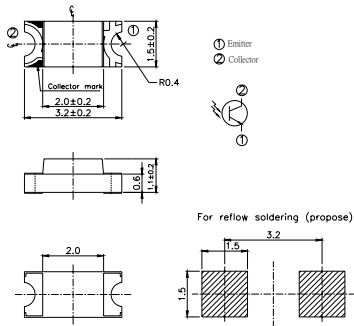
Recommend soldering pad

237

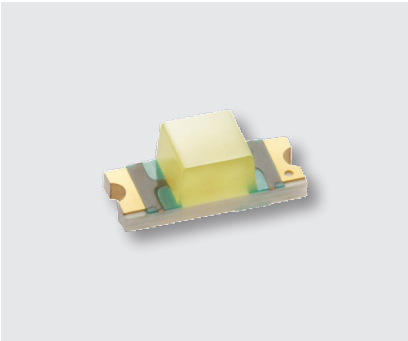
Infrared LED and Silicon Detector | Photo Transistor | SMD



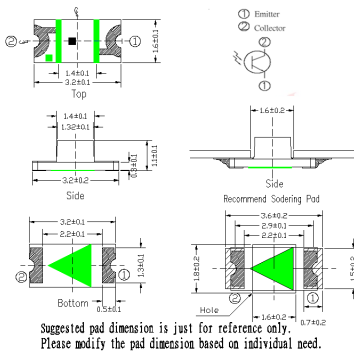
UNIT : mm



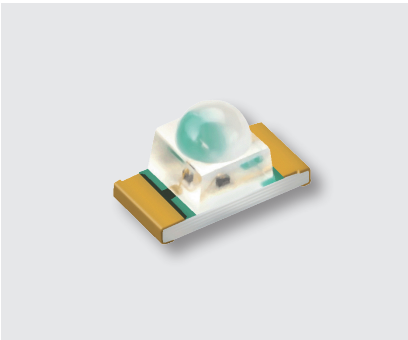
Product	Dimension (mm)	λ_p (nm)	$I_{C(on_Min)}$ (mA)	$I_{C(on_Typ)}$ (mA)	$V_{ce(sat_Max)}$ (V)
PT15-21B/TR8	3.2x1.5x1.1	940	0.1	0.3	0.4



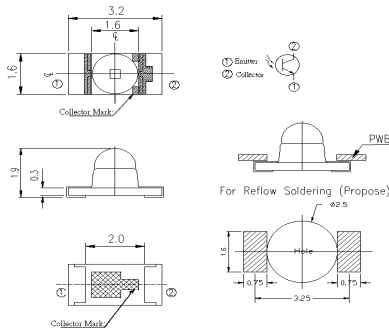
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{C(on_Min)}$ (mA)	$I_{C(on_Typ)}$ (mA)	$V_{ce(sat_Max)}$ (V)
PT23-21B/TR8	3.2x1.6x1.1	940	0.1	0.35	0.4

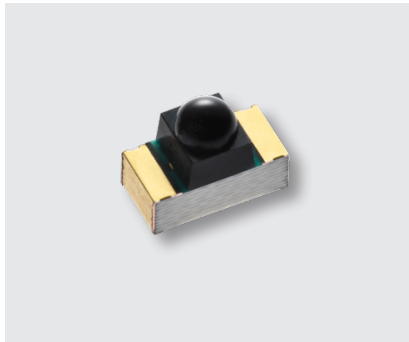


UNIT : mm

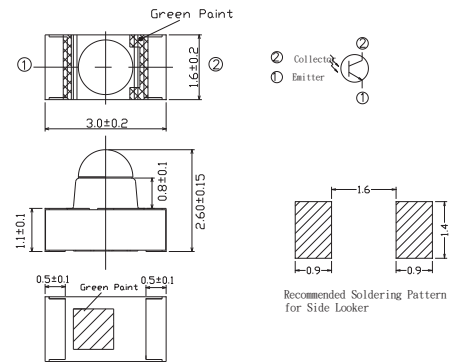


Product	Dimension (mm)	λ_p (nm)	$I_{C(on_Min)}$ (mA)	$I_{C(on_Typ)}$ (mA)	$V_{ce(sat_Max)}$ (V)
PT26-21C/TR8	3.2x1.6x1.9	940	0.3	2.6	0.4

Infrared LED and Silicon Detector | Photo Transistor | SMD



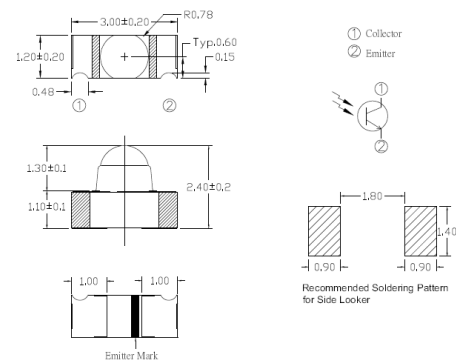
UNIT : mm



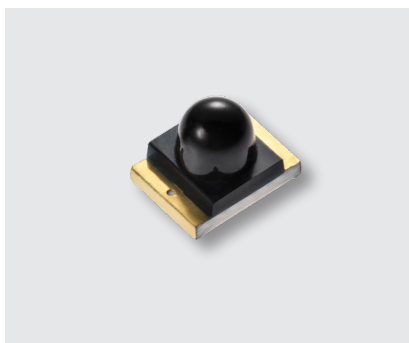
Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT26-51B/T/TR8	3.2x1.6x2.6	940	0.1	1	0.4



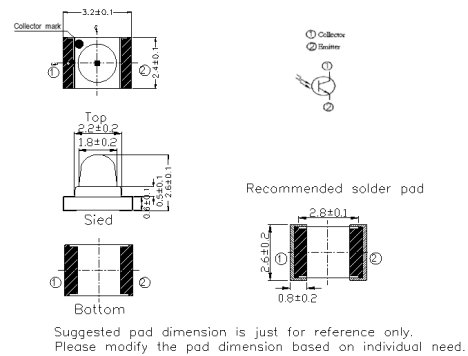
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT26-71B/TR8	3.2x1.6x2.4	940	1.14	3	0.4



UNIT : mm

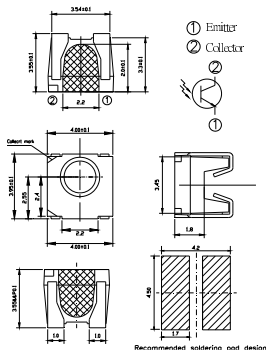


Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT42-21B/TR8	3.2x2.4x2.5	940	1.77	3	0.4

Infrared LED and Silicon Detector | Photo Transistor | SMD



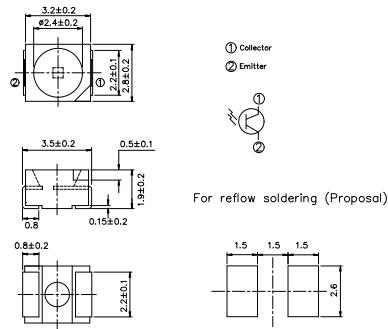
UNIT : mm



Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT57-21B/TR8	4.0x3.95x3.3	940	0.4	0.8	0.4



UNIT : mm

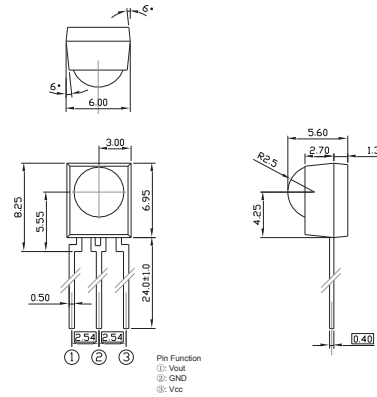


Product	Dimension (mm)	λ_p (nm)	$I_{C(on)}_{Min}$ (mA)	$I_{C(on)}_{Typ}$ (mA)	$V_{ce(sat)}_{Max}(V)$
PT67-21C/L41/TR8	3.5x2.7x1.8	940	0.3	1	0.4

Infrared Receiver Module ■ IRM-Dip series



UNIT : mm

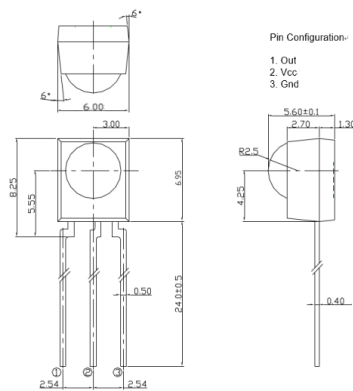


IRM-36xx (Vout-GND-Vcc)

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-36xxJ14	8.25x6.0x5.6	2.7~5.5	36/38/40/56	0.27	20	10	Short Burst
IRM-36xxJ15	8.25x6.0x5.6	2.7~5.5	36/38/40	0.23	20	10	Normal
IRM-36xxJ16	8.25x6.0x5.6	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-36xxJ18	8.25x6.0x5.6	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-36xxJ19	8.25x6.0x5.6	2.7~5.5	36/38/40	0.20	20	10	Normal
IRM-36xxJ22	8.25x6.0x5.6	2.7~5.5	36/38/40	0.20	20	10	Normal
IRM-36xxM13	8.25x6.0x5.6	2.7~5.5	36/38/40	0.29	20	10	Normal
IRM-36xxJF	8.25x6.0x5.6	2.7~5.5	36/38/40	0.27	15	7	Fixed gain
IRM-3600JW2	8.25x6.0x5.6	2.7~5.5	20~60	0.27	5	2	Wide band



UNIT : mm



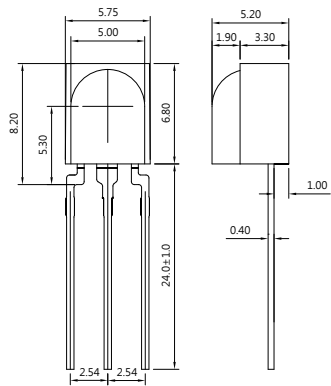
IRM-35xx (Vout-Vcc-GND)

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-35xxJ14	8.25x6.0x5.6	2.7~5.5	36/38/40/56	0.27	20	10	Short Burst
IRM-35xxJ15	8.25x6.0x5.6	2.7~5.5	36/38/40	0.23	20	10	Normal
IRM-35xxJ16	8.25x6.0x5.6	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-35xxJ18	8.25x6.0x5.6	2.7~5.5	36/38/40	0.27	20	10	Continuous

Infrared Receiver Module ■ IRM-Dip series



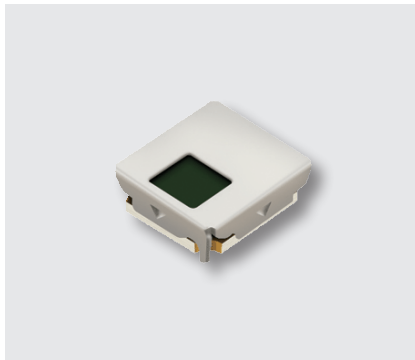
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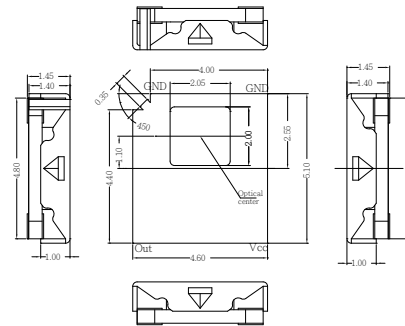
IRM-77xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-77xxJ15	8.10x5.85x5.15	2.7~5.5	36/38/40	0.23	20	10	Normal
IRM-77xxJ16	8.10x5.85x5.15	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-77xxJ18	8.10x5.85x5.15	2.7~5.5	36/38/40	0.27	20	10	Continuous

Infrared Receiver Module ■ IRM-SMD series

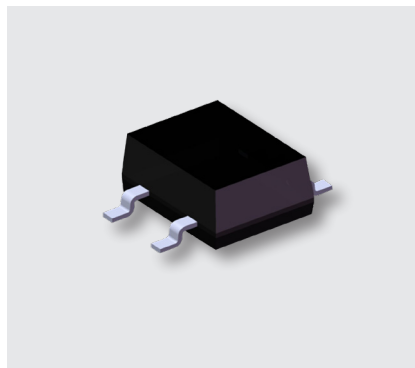


UNIT : mm

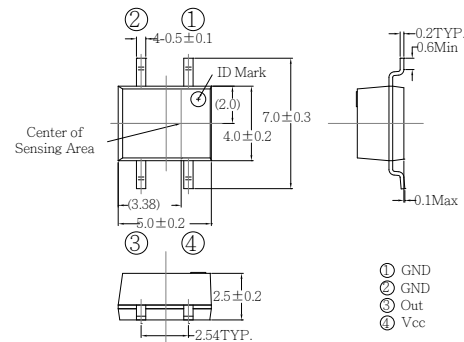


IRM-H2xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-H2xxJ14	5.10x1.45x4.60	2.7~5.5	36/38/40/56	0.27	14	7	Short Burst
IRM-H2xxJ15	5.10x1.45x4.60	2.7~5.5	36/38/40	0.23	14	7	Normal
IRM-H2xxJ16	5.10x1.45x4.60	2.7~5.5	36/38/40	0.27	14	7	Continuous
IRM-H200JW2	5.10x1.45x4.60	2.7~5.5	20~60	0.27	5	2	Wide band



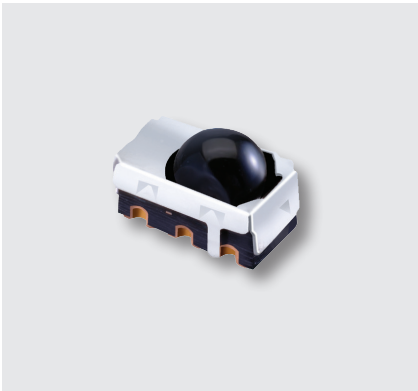
UNIT : mm



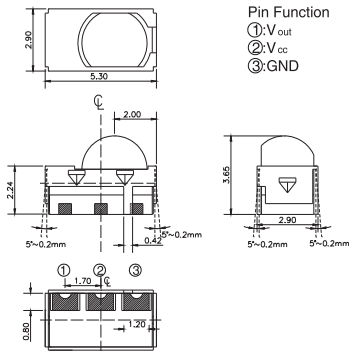
IRM-H9xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-H9xxJ14	5.00x2.50x4.00	2.7~5.5	36/38/40/56	0.27	14	7	Short Burst
IRM-H9xxJ15	5.00x2.50x4.00	2.7~5.5	36/38/40	0.23	14	7	Normal
IRM-H9xxJ16	5.00x2.50x4.00	2.7~5.5	36/38/40	0.27	14	7	Continuous

Infrared Receiver Module I IRM-SMD series



UNIT : mm

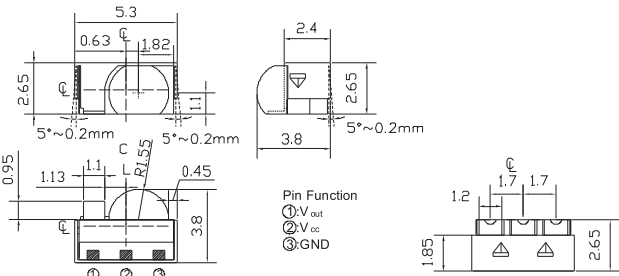


IRM-H5xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-H5xxJ14	5.30x3.65x2.90	2.7~5.5	36/38/40/56	0.27	14	7	Short Burst
IRM-H5xxJ15	5.30x3.65x2.90	2.7~5.5	36/38/40	0.23	14	7	Normal
IRM-H5xxJ16	5.30x3.65x2.90	2.7~5.5	36/38/40	0.27	14	7	Continuous



UNIT : mm



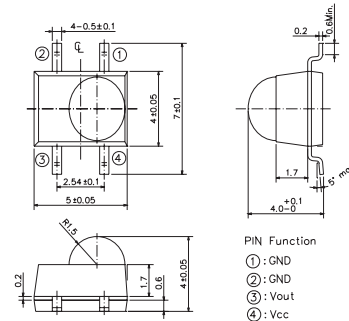
IRM-V5xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-V5xxJ14	5.30x2.65x3.80	2.7~5.5	36/38/40/56	0.27	14	7	Short Burst
IRM-V5xxJ15	5.30x2.65x3.80	2.7~5.5	36/38/40	0.23	14	7	Normal
IRM-V5xxJ16	5.30x2.65x3.80	2.7~5.5	36/38/40	0.27	14	7	Continuous

Infrared Receiver Module ■ IRM-SMD series



UNIT : mm

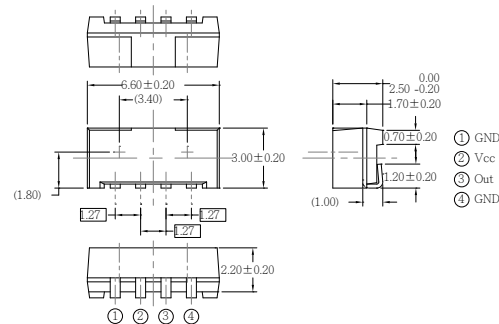


IRM-H6xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-H6xxJ14	5.00x4.00x4.00	2.7~5.5	36/38/40/56	0.27	20	10	Short Burst
IRM-H6xxJ15	5.00x4.00x4.00	2.7~5.5	36/38/40	0.23	20	10	Normal
IRM-H6xxJ16	5.00x4.00x4.00	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-H6xxJ22	5.00x4.00x4.00	2.7~5.5	36/38/40	0.20	20	10	Normal
IRM-H6xxJF	5.00x4.00x4.00	2.7~5.5	36/38/40	0.27	15	7	Fixed gain



UNIT : mm



IRM-H3xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-H3xxJ14	6.60x3.00x2.50	2.7~5.5	36/38/40/56	0.27	14	7	Short Burst
IRM-H3xxJ15	6.60x3.00x2.50	2.7~5.5	36/38/40	0.23	14	7	Normal
IRM-H3xxJ16	6.60x3.00x2.50	2.7~5.5	36/38/40	0.27	14	7	Continuous

Pin Configuration

1	GND
2	VCC
3	OUT
4	GND

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-V8xxJ14	6.60x3.00x3.20	2.7~5.5	36/38/40/56	0.27	20	10	Short Burst
IRM-V8xxJ15	6.60x3.00x3.20	2.7~5.5	36/38/40	0.23	20	10	Normal
IRM-V8xxJ16	6.60x3.00x3.20	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-V8xxM13	6.60x3.00x3.20	2.7~5.5	36/38/40	0.29	20	10	Normal
IRM-V800JW2	6.60x3.00x3.20	2.7~5.5	20~60	0.27	5	2	Wide band



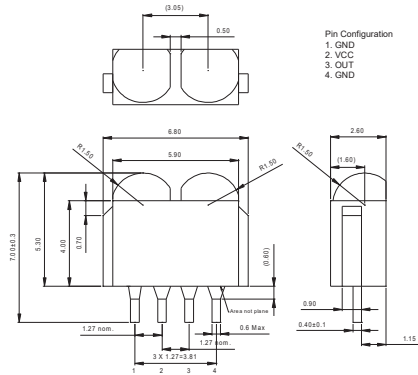
Figure 1: Mechanical drawing of the 10-pin connector. The drawing includes three views: a top view, a side view, and a front view. The top view shows a rectangular connector with four pins on each side. Dimensions include a total width of 6.50 ± 0.20 , a pin pitch of 2.20 ± 0.20 , and a pin diameter of 1.80. The side view shows a height of 1.10 and a pin diameter of 0.9. The front view shows a width of 3.00 ± 0.20 and a pin diameter of 1.27. A pin configuration table is provided, listing 1 GND, 2 VCC, 3 OUT, and 4 GND.

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-H8xxJ14	6.60x3.20x3.00	2.7~5.5	36/38/40/56	0.27	20	10	Short Burst
IRM-H8xxJ15	6.60x3.20x3.00	2.7~5.5	36/38/40	0.23	20	10	Normal
IRM-H8xxJ16	6.60x3.20x3.00	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-H8xxM13	6.60x3.20x3.00	2.7~5.5	36/38/40	0.29	20	10	Normal
IRM-H8xxJ18	6.60x3.20x3.00	2.7~5.5	36/38/40	0.27	20	10	Continuous

Infrared Receiver Module ■ IRM-SMD series



UNIT : mm

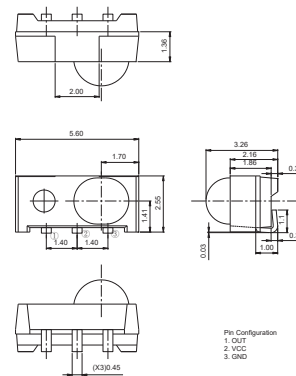


IRM-V11xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-V11xxJ16	6.80x2.60x5.30	2.7~5.5	36/38/40	0.27	20	10	Continuous
IRM-V11xxJ18	6.80x2.60x5.30	2.7~5.5	36/38/40	0.27	20	10	Continuous

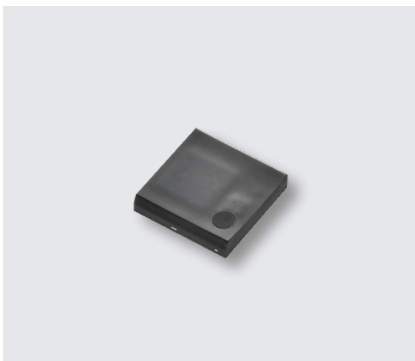


UNIT : mm

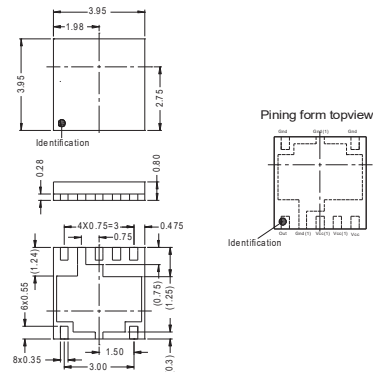


IRM-V16xx

Product	Dimension HxLxD(mm)	Supply Voltage(V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Reception Range L45 typ.(m)	Features
IRM-V16xxJ15	2.55x5.60x3.26	2.7~5.5	36/38/40	0.23	14	7	Normal
IRM-V16xxJ16	2.55x5.60x3.26	2.7~5.5	36/38/40	0.27	14	7	Continuous
IRM-V16xxJ18	2.55x5.60x3.26	2.7~5.5	36/38/40	0.27	14	7	Continuous



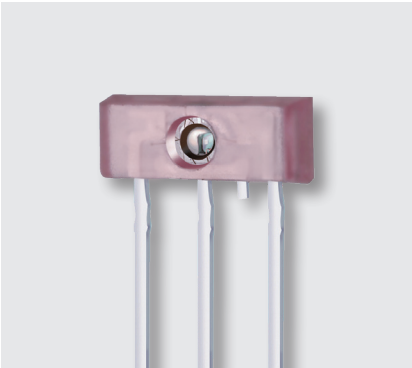
UNIT : mm



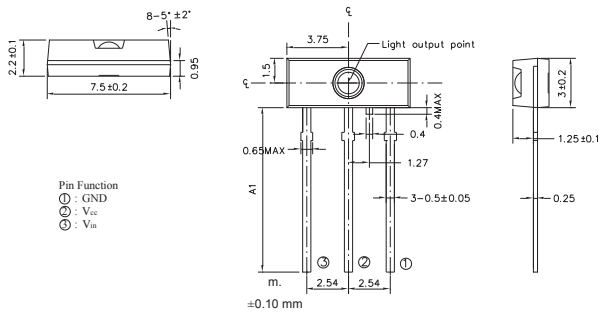
IRM-HQxx (QFN Package)

Product	Dimension WxHxD (mm)	Supply Voltage (V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range L0 Typ.(m)	Half viewing angle Typ. (degree)	Reception Range L45 typ.(m)
IRM-HQxxJ16	3.95x0.80x3.95	2.7~5.5	36/38/40	0.27	40	34	Continuous
IRM-HQxxJ18	3.95x0.80x3.95	2.7~5.5	36/38/40	0.27	40	34	Continuous

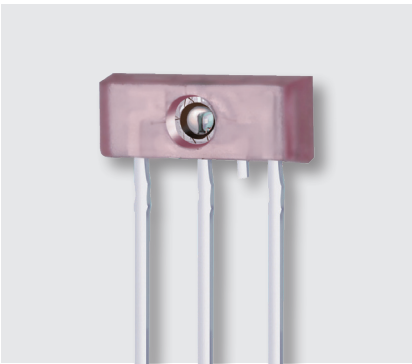
Optic-Fiber Device (Photo Link) ■ Transmitter (PLT) Component



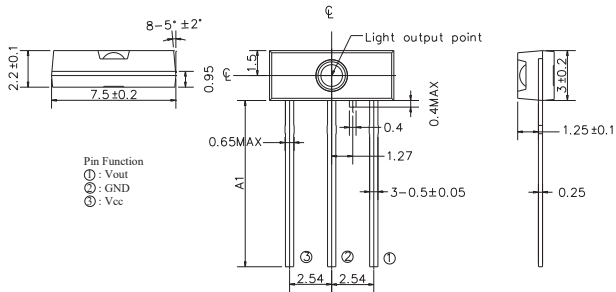
UNIT : mm



Product	Dimension (mm)	Fiber Coupling Receiver Power_Max (dBm)	Fiber Coupling Receiver Power_Min (dBm)	Operation Voltage(V)	Trans - mission Speed (Mb/s)	L/F Thicknes(mm)
PLT137	7.5x3.0x2.2	-15	-21	2.7~5.5	16	0.25
PLT237	7.5x3.0x2.2	-14	-21	3.0~5.0	25	0.25



UNIT : mm

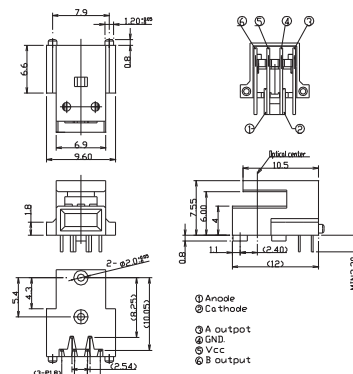


Product	Dimension (mm)	Fiber Coupling Receiver Power_Max (dBm)	Fiber Coupling Receiver Power_Min (dBm)	Operation Voltage(V)	Trans - mission Speed (Mb/s)	L/F Thicknes(mm)
PLR137	7.5x3.0x2.2	-14	-27	2.4~5.5	16	0.25
PLR237	7.5x3.0x2.2	-14	-27	2.4~5.5	25	0.25

Optical Switch I Encoder



UNIT : mm

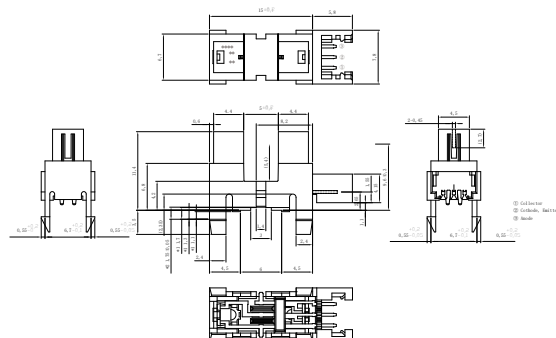


Product	Dimension LxWxH (mm)	Gap Distance (mm)	Supply voltage (V)	Resolution (LPI)	VF_Typ (V)
ECD04Txx20F/TB	9.6x12.0x7.55	2	2.7~5.5	150/300	1.6

Optical Switch I Transmissive Type



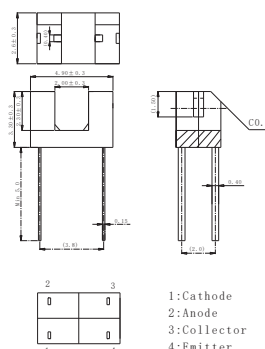
UNIT : mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	VF_Typ (V)	VF_Max (V)	VCE(SAT)_Max (V)	IC(ON)_Min (mA)	ICEO_Max. (nA)
ITR1601CT50A/TB	20.8x14.9x7.8	5	1.18	1.4	0.4	0.25	100



UNIT : mm

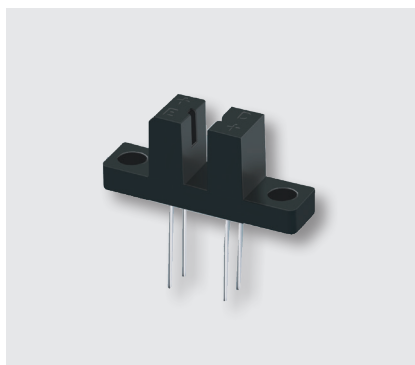


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	VF_Typ (V)	VF_Max (V)	VCE(SAT)_Max (V)	IC(ON)_Min (mA)	ICEO_Max. (nA)
ITR2153DT20A/TB	4.9x2.6x3.3	2	-	1.6	0.4	0.18	100

Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _F _Typ (V)	V _F _Max (V)	V _{CE(SAT)} _Max (V)	I _{C(ON)} _Min (mA)	I _{CEO} _Max. (nA)
ITR20403	6.4x4.2x5.4	3	1.23	1.6	0.4	0.2	100

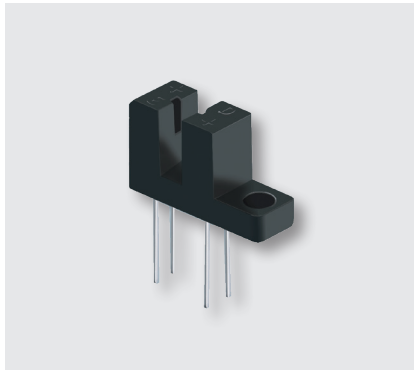


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _F _Typ (V)	V _F _Max (V)	V _{CE(SAT)} _Max (V)	I _{C(ON)} _Min (mA)	I _{CEO} _Max. (nA)
ITR2006ST30A/TR	6.4x4.2x5.4	3	1.23	1.6	0.4	0.2	100

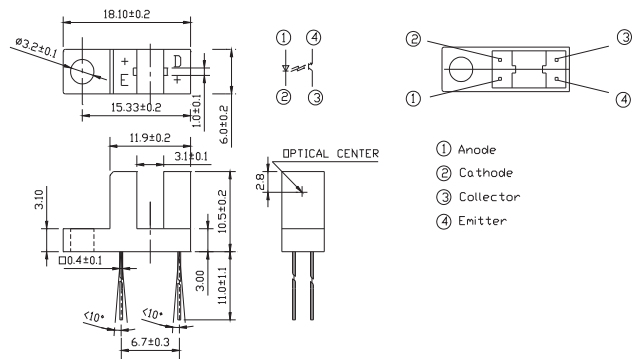


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _F _Typ (V)	V _F _Max (V)	V _{CE(SAT)} _Max (V)	I _{C(ON)} _Min (mA)	I _{CEO} _Max. (nA)
ITR8102	24.4x6.0x10.4	3.1	1.25	1.6	0.4	0.9	100

Optical Switch I Transmissive Type



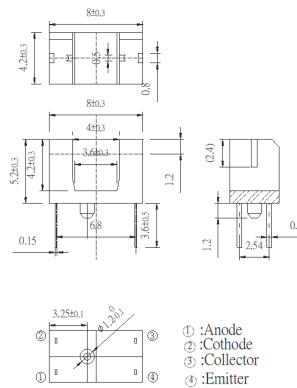
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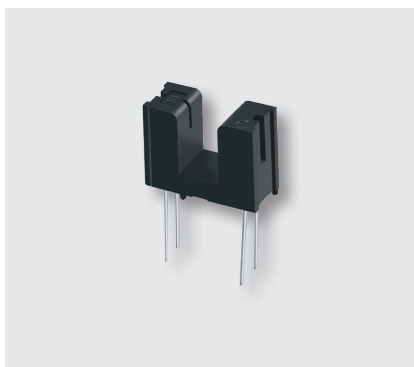
Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8104	18.1x6.0x10.5	3.1	1.2	1.6	0.4	0.5	100



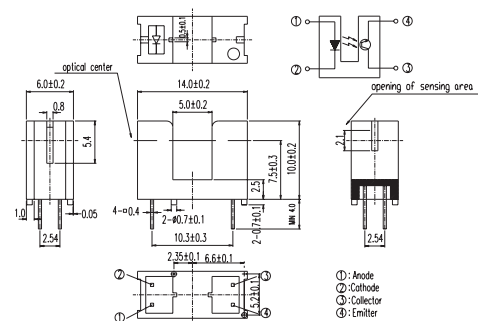
UNIT : mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR2253DT40A/TB	8.0x4.2x5.2	4	1.2	1.6	0.4	0.2	100

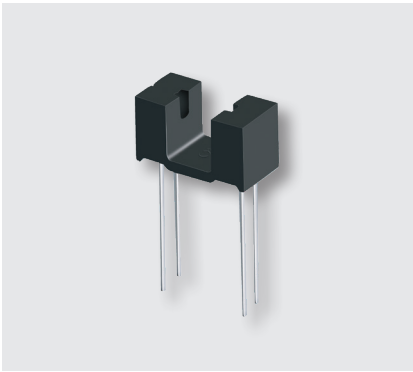


UNIT : mm

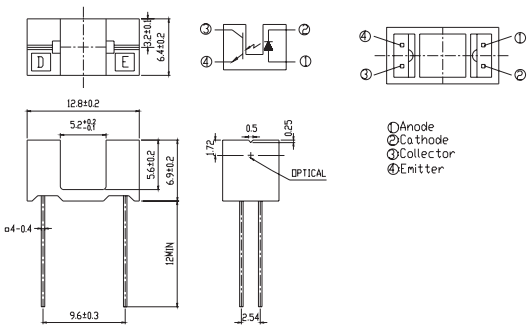


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR9606-F	14.0x6.0x10.0	5.0	1.2	1.5	0.4	3.0	100

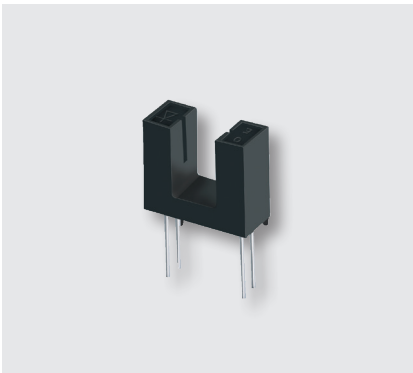
Optical Switch I Transmissive Type



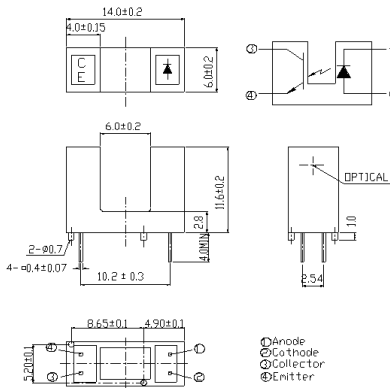
UNIT : mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR9707	12.8x6.4x6.9	5.2	1.2	1.5	0.4	0.5	100



UNIT : mm

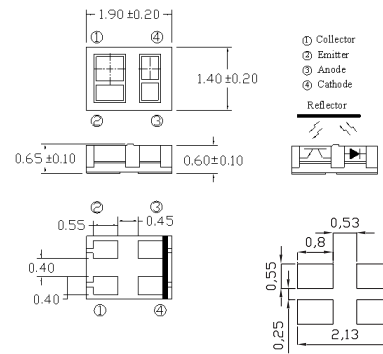


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8402-F-A	14.0x6.0x11.6	6	1.2	1.5	0.4	0.5	100

Optical Switch ■ Reflective Type



UNIT : mm

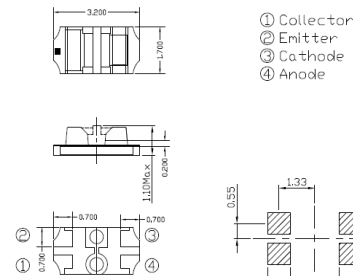


Recommended Soldering Pattern

Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR1204SR10A/TR	1.9x1.4x0.65	0.7	1.25	1.5	N/A	0.06	100



UNIT : mm

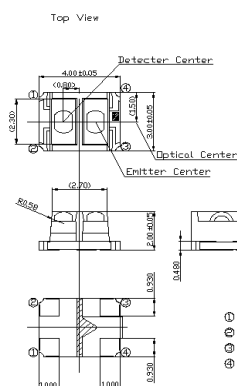


Recommended soldering pad design

Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR2001SR10A/TR	2.3x1.7x1.1	1	1.25	1.5	N/A	0.13	100



UNIT : mm

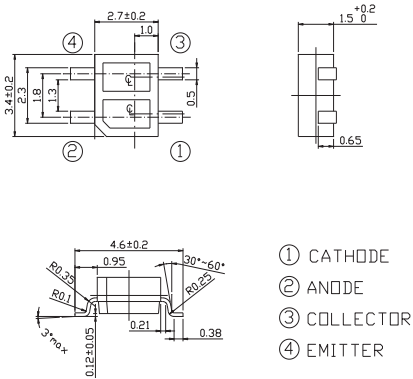


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR1502SR40A/TR8	4.0x3.0x2.0	4.0	1.2	1.4	N/A	0.06	100

Optical Switch | Reflective Type



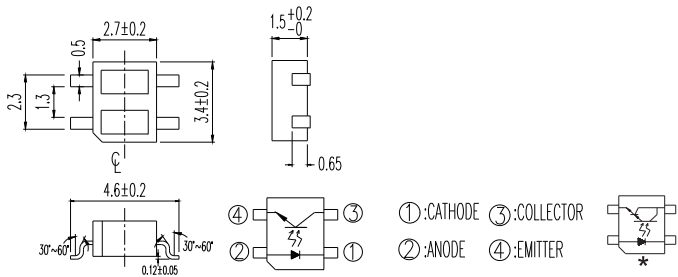
UNIT : mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8307/S17/TR8	4.6x3.4x1.5	1.2	1.2	1.6	0.4	0.18	100
ITR8307/S18/TR8	4.6x3.4x1.5	0.6	1.2	1.6	0.4	0.3	100



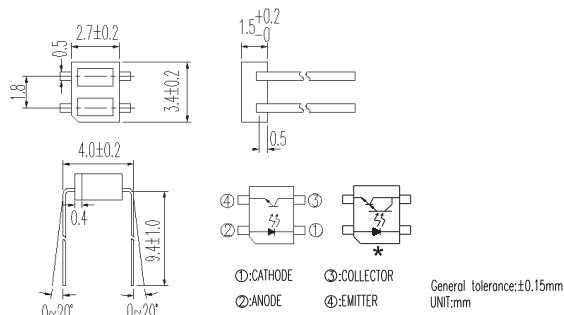
UNIT : mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8307/L24/TR8	4.6x3.4x1.5	0.6	1.2	1.6	1	0.5	100



UNIT : mm

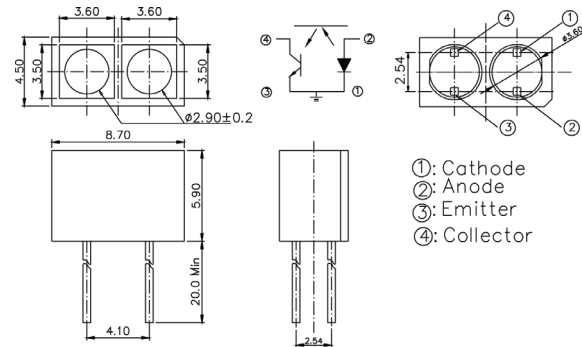


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8307/F43	3.4x2.7x1.5	0.6	1.2	1.6	N/A	0.1	100
ITR8307/L24/F43	3.4x2.7x1.5	0.6	1.2	1.6	1.0	0.5	100

Optical Switch ■ Reflective Type



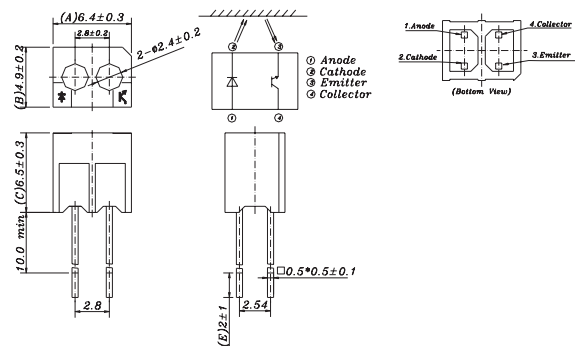
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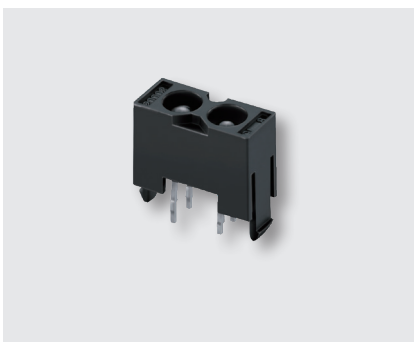
Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Type} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR9909	8.7x4.5x5.9	>5	1.2	1.5	0.4	9.0	100



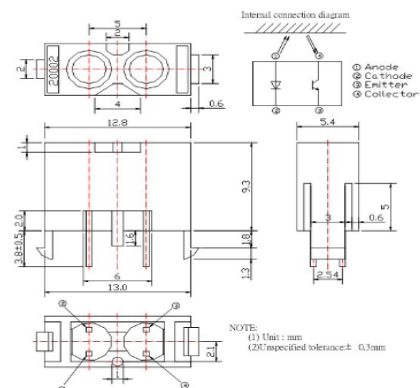
UNIT : mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Type} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20001/T	6.4x4.9x6.5	>5	1.2	1.5	0.4	0.2	100

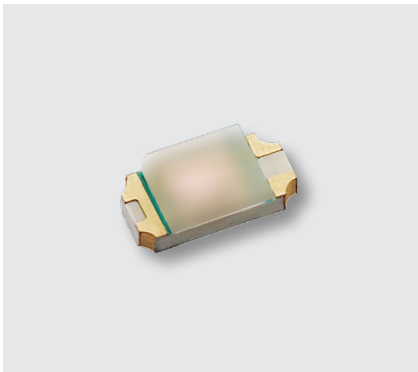


UNIT : mm

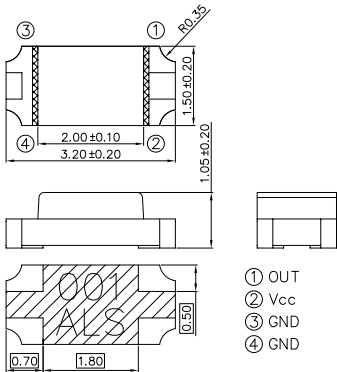


Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Reflective Distance (mm)	V _{F_Type} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20002	12.8x5.5x9.3	>5	1.2	1.5	0.4	0.04	100

Optical Sensors | Ambient Light Sensor | Analog



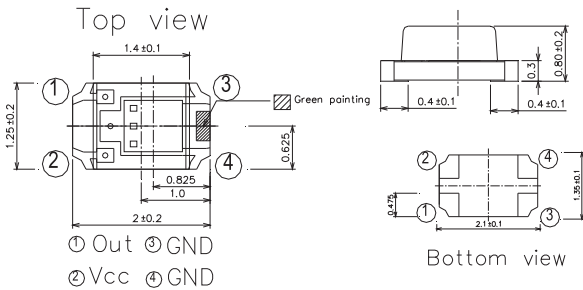
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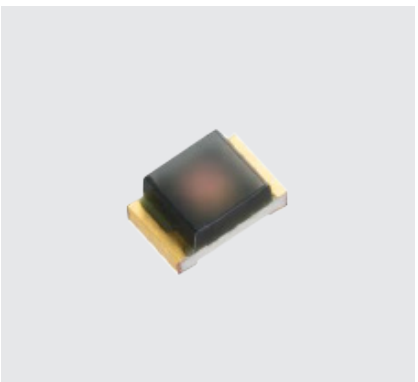
Product	Dimension (mm)	Supply Voltage, Vdd(V)	Peak Sensitivity Wavelength, λp(nm)	Photo current Ev=100lux, Iph(μA)	Max. Dark Current, ID_Max (μA)
ALS-PDIC15-21C/L230/TR8	3.2x1.5x1.1	2.5~5.5	590	36~95	0.1



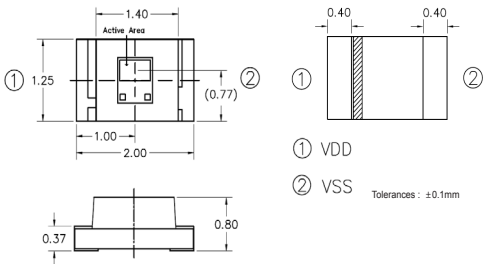
UNIT : mm



Product	Dimension (mm)	Supply Voltage, Vdd(V)	Peak Sensitivity Wavelength, λp(nm)	Photo current Ev=100lux, Iph(μA)	Max. Dark Current, ID_Max (μA)
ALS-PDIC17-55C/TR8	2x1.25x0.8	1.8~5.5	590	27~54	0.1



UNIT : mm

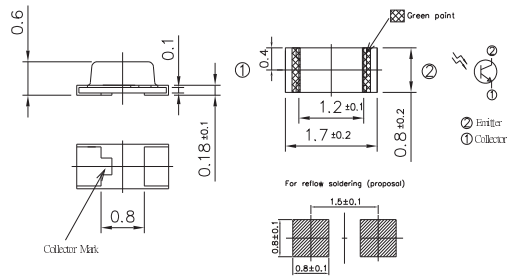


Product	Dimension (mm)	Supply Voltage, Vdd(V)	Peak Sensitivity Wavelength, λp(nm)	Photo current Ev=100lux, Iph(μA)	Max. Dark Current, ID_Max (μA)
ALS-PDIC17-51B/L758/TR8	2x1.25x0.8	2~5.5	570	29~55	0.03

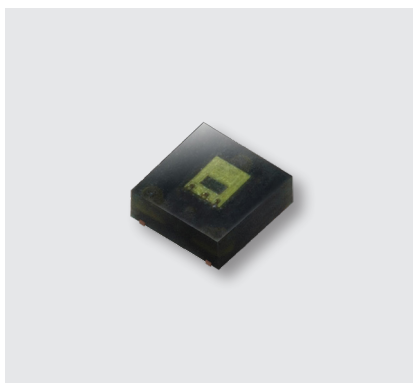
Optical Sensors | Ambient Light Sensor | Analog



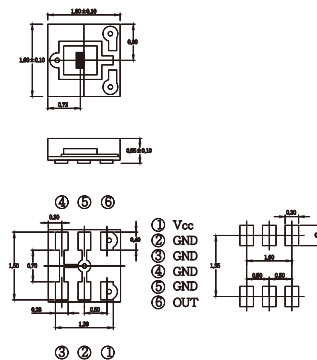
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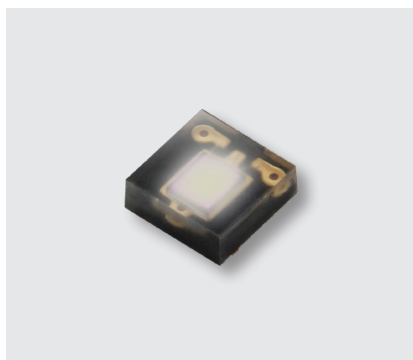
Product	Dimension (mm)	Supply Voltage, V _{dd} (V)	Peak Sensitivity Wavelength, λ _p (nm)	Photo current E _v =100lux, I _{ph} (μA)	Max. Dark Current, I _{D_Max} (μA)
ALS-PT19-315C/L177/TR8	1.7x0.8x0.6	2.5~5.5	630	15	0.1



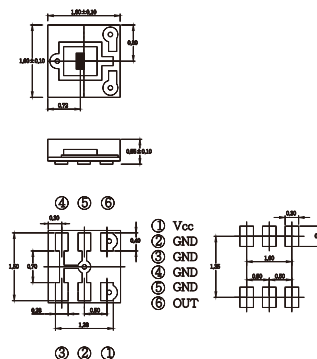
UNIT : mm



Product	Dimension (mm)	Supply Voltage, V _{dd} (V)	Peak Sensitivity Wavelength, λ _p (nm)	Photo current E _v =100lux, I _{ph} (μA)	Max. Dark Current, I _{D_Max} (μA)
ALS-PDIC17-77B/TR8	1.6x1.6x0.55	1.8~5.5	580	40~80	0.1



UNIT : mm

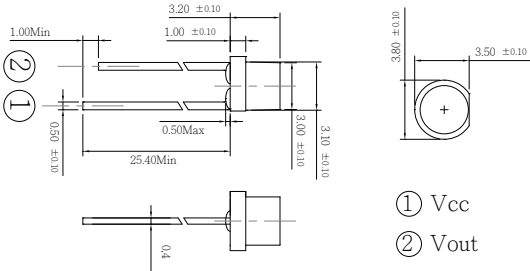


Product	Dimension (mm)	Supply Voltage, V _{dd} (V)	Peak Sensitivity Wavelength, λ _p (nm)	Photo current E _v =100lux, I _{ph} (μA)	Max. Dark Current, I _{D_Max} (μA)
ALS-PDIC17-77C/TR8	1.6x1.6x0.55	1.8~5.5	550	27~54	0.1

Optical Sensors | Ambient Light Sensor | Analog



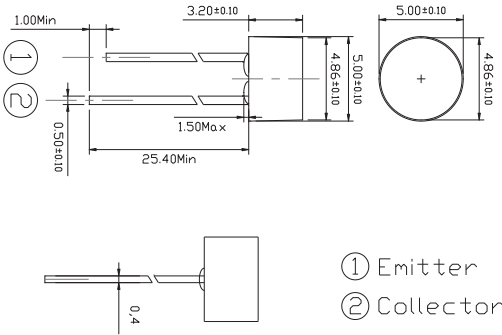
UNIT : mm



Product	Dimension (mm)	Supply Voltage, Vdd(V)	Peak Sensitivity Wavelength, λp(nm)	Photo current Ev=100lux, Iph(μA)	Max. Dark Current, ID_Max (μA)
ALS-PDIC144-6C/L378	3.8x3.5x3.2	1.8~5.5	550	22~44	0.1
ALS-PDT144-6C/L451	3.8x3.5x3.2	3~24	790	280~700	0.1

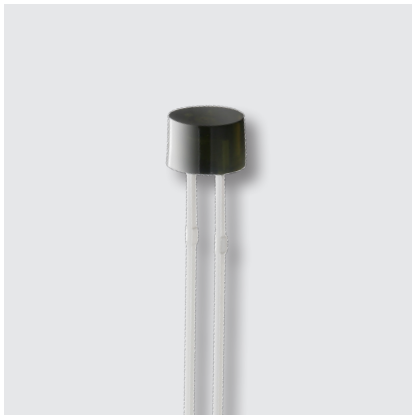


UNIT : mm

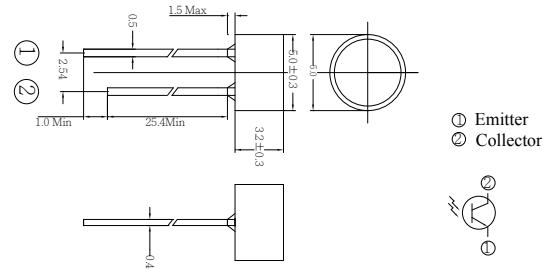


Product	Dimension (mm)	Supply Voltage, Vdd(V)	Peak Sensitivity Wavelength, λp(nm)	Photo current Ev=100lux, Iph(μA)	Max. Dark Current, ID_Max (μA)
ALS-PDT243-3C/L451	5.0x5.0x3.2	3~24	790	285~720	0.1

Optical Sensors | Ambient Light Sensor | Analog

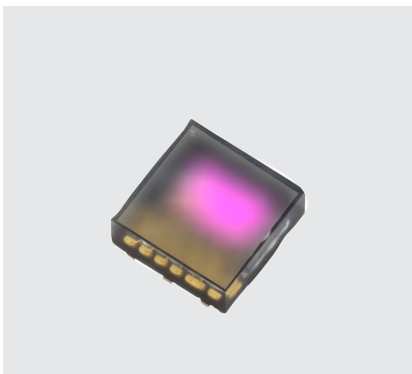


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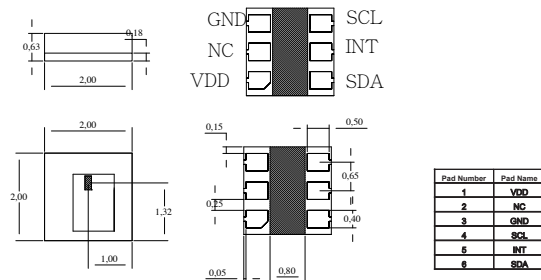


Product	Dimension (mm)	Supply Voltage, Vdd(V)	Peak Sensitivity Wavelength, λ_p (nm)	Photo current $E_v=100\text{lux}$, $I_{ph}(\mu\text{A})$	Max. Dark Current, $I_{D_Max}(\mu\text{A})$
ALS-PDIC243-3B	5.0x5.0x3.2	1.8~5.5	560	10~35	0.1
ALS-PDIC243-3B/L716	5.0x5.0x3.2	2~5.5	560	7~24	0.05

Optical Sensors | Ambient Light Sensor | Digital

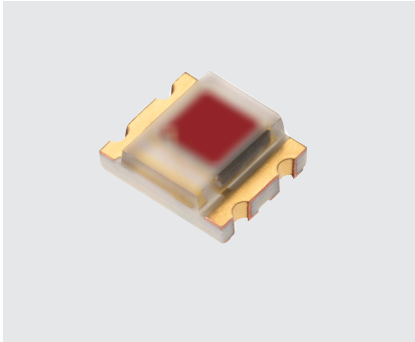


UNIT : mm

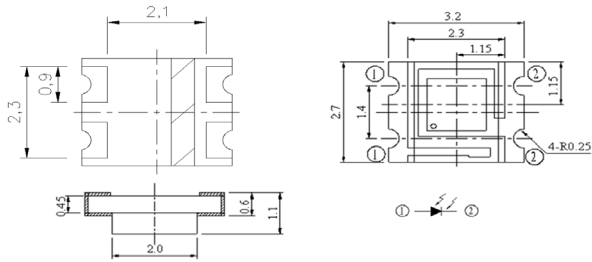


Product	Dimension (mm)	Supply Voltage, Vdd(V)	Supply Current, $I_{dd}(\mu\text{A})$	Peak Sensitivity Wavelength, λ_p (nm)	ALS Photo output $E_v=100\text{lux}$ (count)	ALS Dark output (count)	ADC Resolution (bit)	Maximum Detection (lux)	Lux Resolution (lux)
ALS-DPIC17-78C/L749/TR8	2.00 x 2.00 x 0.63	2.4 ~ 3.6	160	550	CH0 2300 CH1 3100	1	10~16 bit	83000	0.0033

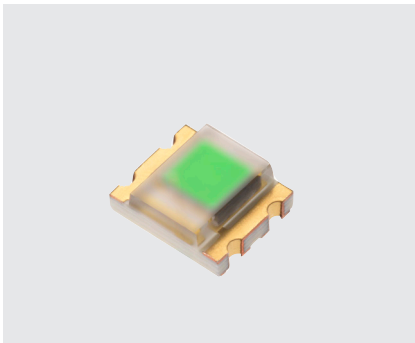
Optical Sensors | Color Sensor | Analog



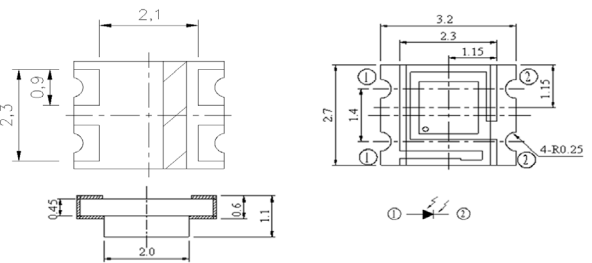
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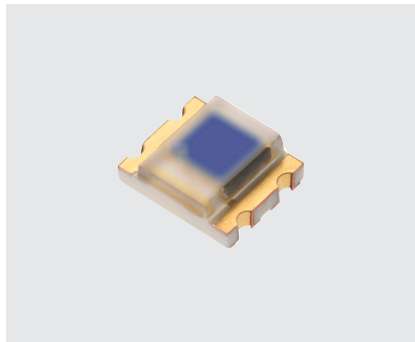
Product	Dimension (mm)	Forward Voltage(V)	Peak Sensitivity Wavelength, λ_p (nm)	Reverse light current (Ee=100lux), IL(μ A)
CLS15-22C/L213R/TR8	3.2x2.7x1.1	0.5~1.3	620	0.091



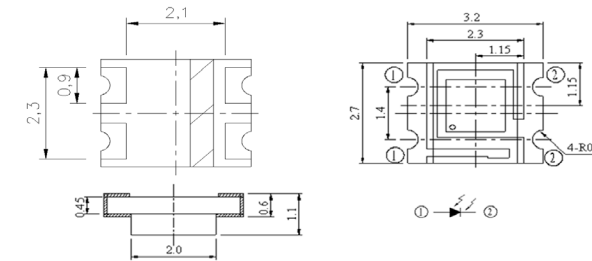
UNIT : mm



Product	Dimension (mm)	Forward Voltage(V)	Peak Sensitivity Wavelength, λ_p (nm)	Reverse light current (Ee=100lux), IL(μ A)
CLS15-22C/L213G/TR8	3.2x2.7x1.1	0.5~1.3	550	0.082

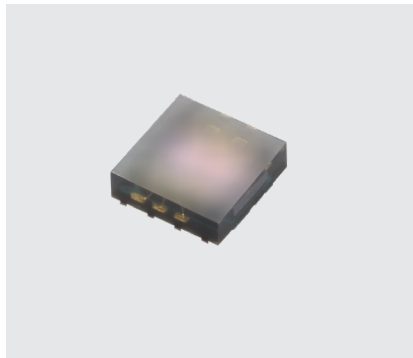


UNIT : mm

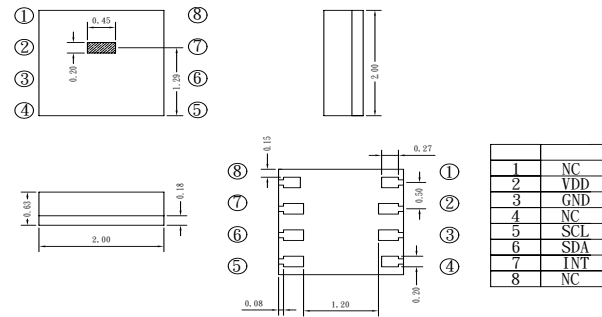


Product	Dimension (mm)	Forward Voltage(V)	Peak Sensitivity Wavelength, λ_p (nm)	Reverse light current (Ee=100lux), IL(μ A)
CLS15-22C/L213B/TR8	3.2x2.7x1.1	0.5~1.3	470	0.046

Optical Sensors | Color Sensor | Digital



UNIT : mm

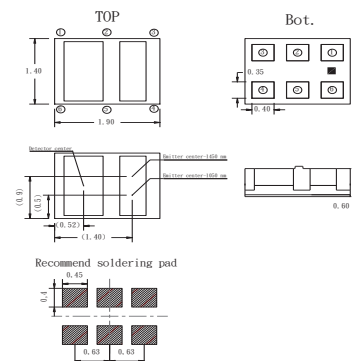


Product	Dimension (mm)	Supply Voltage, VDD(V)	Peak Sensitivity Wavelength λp1(nm)	Supply Current(μA)	ClS Photo Output Ie=20μW/cm2 (count)	ClS Dark Output (count)	Maximum Detection Lux(Lux)
CLS-16D24-44-DF8/TR8	2.00 x 2.00 x 0.63	2.4 ~ 3.6	R 610nm,G 550nm, B 470nm, IR, W	IDD_ON = 210 IDD_OFF = 2.5	CH_Red 1500 CH_Green 3300 CH_Blue 2100 DIOD_SELT =2, PGA_CLS =x 96 , INT_TIME=16 T, CLSCONV=6 INT_TIME	1	204K
B-CPS2020C1-L992-D-2R	2.00 x 2.00 x 0.63	2.4 ~ 3.6	R 630nm,G 530nm, B 480nm, IR, W	IDD_ON = 230(CPS) IDD_ON = 230 (CLS) IDD_OFF = 0.1	CH_Red 6200 CH_Green 8600 CH_Blue 7200 EN_CLS=1, PON=1, 50HZ=1, TIME_BASE=0, TIME_DELAY=0, TIME_WAIT=0, TIME_CLS=0F, Gain_CLS=MAX	2	284K

Optical Sensors | Skin sensor



UNIT : mm

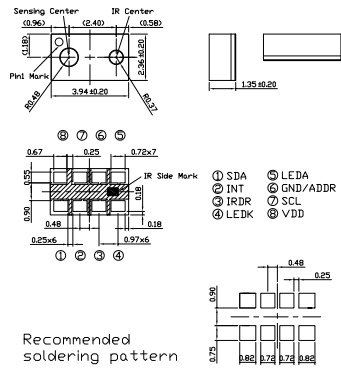


Product	Dimension (mm)	VF1_Typ(V)	λp1_Typ(nm)	VF2_Typ(V)	λp2_Typ(nm)
B-PM1914B3/L973-A-3R	1.9x1.4x0.6	1.13	1050	0.83	1450

Optical Sensors | Proximity Sensor | Digital



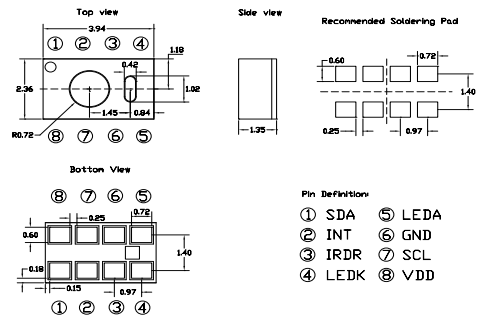
UNIT : mm



Product	Dimension (mm)	Supply Voltage, Vdd(V)	Supply Current, Idd(uA)	Peak Sensitivity Wavelength, λp(nm)	ALS Photo output Ev=100lux (count)	ALS Dark output (count)	ADC Resolution (bit)	Maximum Detection (lux)	Lux Resolution (lux)	Detection Range	PS ADC Resolution	Emitting Wavelength (nm)
APM-16D24-U6E-DF8/TR8	3.94x2.36x1.35 Pitch: 2.4mm	2.4 ~ 3.6	IDD_ON = 160 / IDD_OFF = 2.5	550	CH0 1250 CH1 1440 Ev=100lx, ALS gain 4×, Tint 170ms	1	10-16 bit	20700	0.0033	up to 10cm	8-12 bit	940nm



UNIT : mm

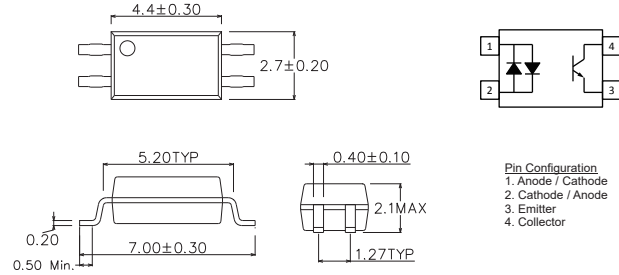


Product	Dimension (mm)	Supply Voltage, Vdd(V)	Supply Current, Idd(uA)	Peak Sensitivity Wavelength, λp(nm)	ALS Photo output Ev=100lux (count)	ALS Dark output (count)	ADC Resolution (bit)	Maximum Detection (lux)	Lux Resolution (lux)	Detection Range	PS ADC Resolution	Emitting Wavelength (nm)
APM-16D24-310-DF8/TR8	3.94x2.36x1.35 Pitch: 1.45mm	2.4 ~ 3.6	IDD_ON = 260 IDD_OFF = 2.5	550	CH0 3340 CH1 4360 Ev=100lx, ALS gain32×, Tint 170ms	1	10-16 bit	57000	0.0023	up to 10cm	8-12 bit	940nm

Photo Coupler ■ Photo Transistor ■ 4pin SSOP-AC



UNIT : mm

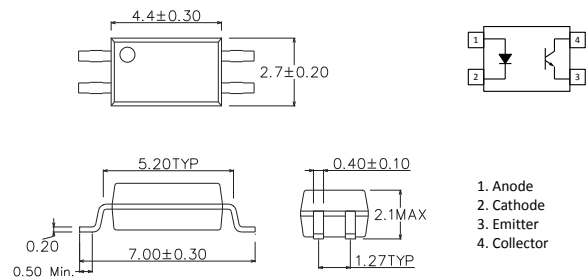


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	T_{OPR} (°C)	Viso (Vrms)
EL3H4-G	4.4x2.7x2.1	High Vceo	1.2	80	0.2	1	20~300	-	-	-55~110	3750
EL3H4U-G	4.4x2.7x2.1	Low Input Current :0.5mA, TOPR=125°C	1.3	60	0.4	0.5	50~600	-	-	-55~125	3750
EV3H4U-G	4.4x2.7x2.1	Low Input Current :0.5mA, TOPR=125°C AECQ101 Certified	1.3	60	0.4	0.5	50~600	-	-	-55~125	3750

Photo Coupler ■ Photo Transistor ■ 4Pin SSOP-DC



UNIT : mm

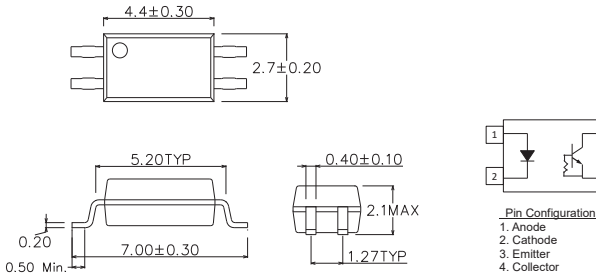


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	T_{OPR} (°C)	Viso (Vrms)
EL3H7-G	4.4x2.7x2.1	High Vceo	1.2	80	0.2	5	50~600	5	3	-55~110	3750
EL3H7L-G	4.4x2.7x2.1	Ultra Low Input Current :0.1mA	1.4	80	0.3	0.1	50~600	5	5	-55~110	3750
EL3H7H-G	4.4x2.7x2.1	TOPR=125°C	1.2	80	0.3	5	80~260	6	8	-55~125	3750
EL3H7U-G	4.4x2.7x2.1	Low Input Current :0.5mA, TOPR=125°C	1.3	60	0.4	0.5	50~600	8	10	-40~125	3750
EV3H7U-G	4.4x2.7x2.1	Low Input Current :0.5mA, TOPR=125°C, AECQ101 Certified	1.3	60	0.4	0.5	50~600	8	10	-40~125	3750
ELC3H7-G	4.4x2.7x2.1	Low Input Current :0.5mA, TOPR=125°C, Flat I_F to CTR	1.3	80	0.3	0.5	50~600	6	8	-40~125	3750

Photo Coupler | Photo Transistor | 4pin SSOP-DC

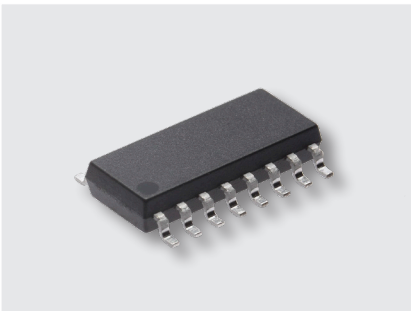


UNIT : mm

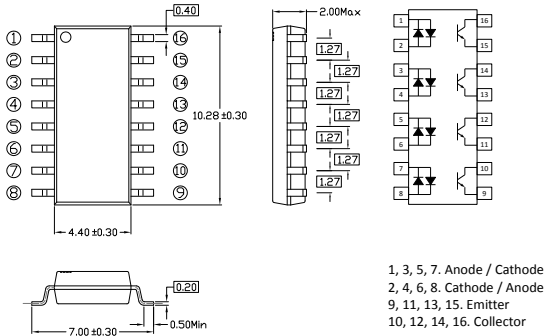


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	ton (μs)	toff (μs)	T _{OPR} (°C)	Viso (Vrms)
EL2HK-G	4.4x2.7x2.1	TOPR=125°C, 20 Kbps Ton&Toff <30us@RL=10 KΩ	1.3	70	0.3	1	100~600	-	-	30 (max)	30 (max)	-40~125	3750

Photo Coupler | Photo Transistor | 16pin SSOP-AC

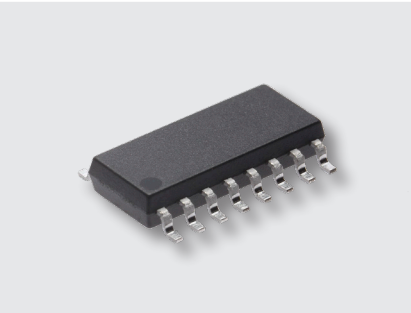


UNIT : mm

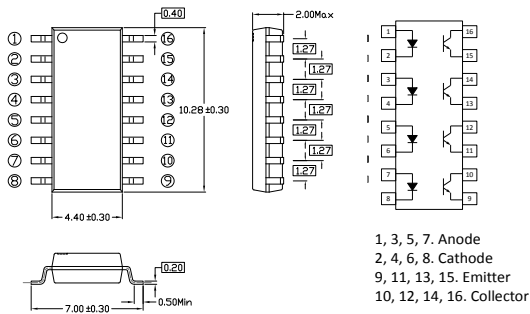


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	T _{OPR} (°C)	Viso (Vrms)
ELQ3H4-G	10.28x4.4x2	4CH, High Vceo	1.2	80	0.2	1	20~300	5	3	-55~110	3750

Photo Coupler | Photo Transistor | 16Pin SSOP-DC

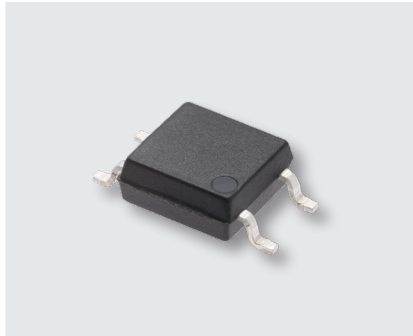


UNIT : mm

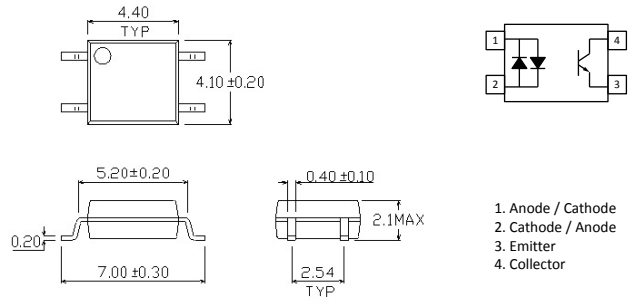


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	T _{OPR} (°C)	Viso (Vrms)
ELQ3H7-G	10.28x4.4x2	4CH, High Vceo	1.2	80	0.2	5	50~600	5	3	-55~110	3750

Photo Coupler ■ Photo Transistor ■ 4pin SOP-AC



UNIT : mm

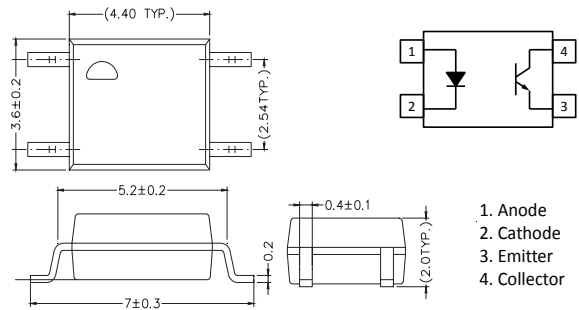


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	T_{OPR} (°C)	Viso (Vrms)
EL354N-G	4.4x4.1x2.1	High Vceo	1.2	80	0.2	1	20~300	-	-	-55~100	3750

Photo Coupler ■ Photo Transistor ■ 4pin SOP-DC



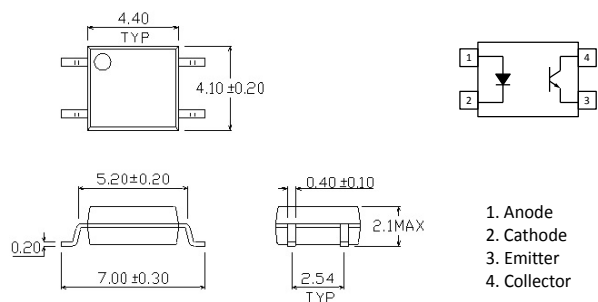
UNIT : mm



Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	T_{OPR} (°C)	Viso (Vrms)
EL121N-G	4.4x3.6x2	High Vceo	1.2	80	0.2	5	50~400	6	8	-55~110	3750



UNIT : mm

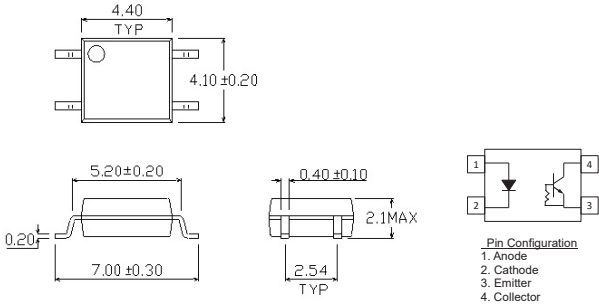


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	T_{OPR} (°C)	Viso (Vrms)
EL357N-G	4.4x4.1x2.1	High Vceo	1.2	80	0.2	5	50~600	3	4	-55~110	3750
EL357NL-G	4.4x4.1x2.1	Ultra Low Input Current :0.1mA	1.3	75	0.4	0.1	50~200	8	12	-55~110	3750
EL357NH-G	4.4x4.1x2.1	TOPR=125°C	1.2	80	0.3	5	50~600	6	8	-55~125	3750
EL357NU-G	4.4x4.1x2.1	Low Input Current :0.5mA, TOPR=125°C	1.3	60	0.4	0.5	50~600	-	-	-40~125	3750
EV357NU-G	4.4x4.1x2.1	Low Input Current :0.5mA, TOPR=125°C, CAECQ101 Certified	1.3	60	0.4	0.5	50~600	-	-	-40~125	3750
ELC357N-G	4.4x4.1x2.1	Low Input Current :0.5mA, TOPR=125, Flat IF to CTR	1.3	80	0.3	0.5	50~600	6	8	-40~125	3750

Photo Coupler | Photo Transistor | 4pin SSOP-DC



UNIT : mm

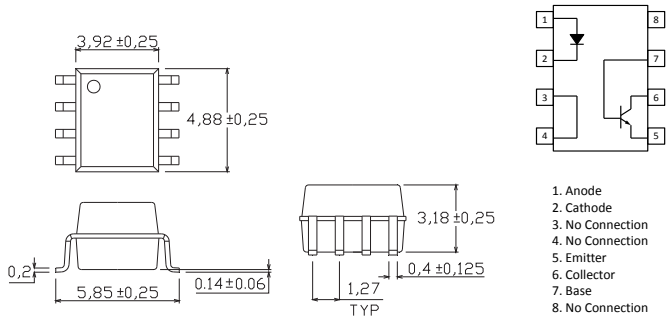


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{OPR} (°C)	Viso (Vrms)
ELM2K-G	4.4x4.1x2.1	TOPR=125°C, 20 Kbps Ton&Toff <30us@RL=10 KΩ	1.3	70	0.3	1	100~600	-	-	30 (min)	30 (min)	-40~125	3750

Photo Coupler | Photo Transistor | 8pin SOP-DC

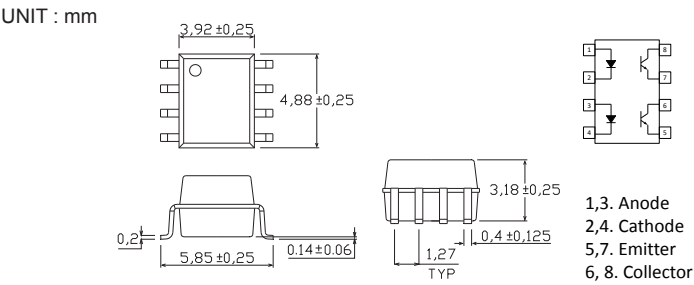


UNIT : mm



Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{OPR} (°C)	Viso (Vrms)
EL205	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	40~80	1.6	2.2	3	3	-55~110	3750
EL206	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	63~125	1.6	2.2	3	3	-55~110	3750
EL207	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	100~200	1.6	2.2	3	3	-55~110	3750
EL208	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	160~320	1.6	2.2	3	3	-55~110	3750
EL211	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	>20	1.6	2.2	3	3	-55~110	3750
EL212	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	>50	1.6	2.2	3	3	-55~110	3750
EL213	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	10	>100	1.6	2.2	3	3	-55~110	3750
EL215	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	1	>10	1.6	2.2	3	3	-55~110	3750
EL216	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	1	>50	1.6	2.2	3	3	-55~110	3750
EL217	4.88x3.92x3.18	High V _{ceo} , with Base Pin Function	1.3	80	0.4	1	>100	1.6	2.2	3	3	-55~110	3750

Photo Coupler | Photo Transistor | 8pin SOP-DC

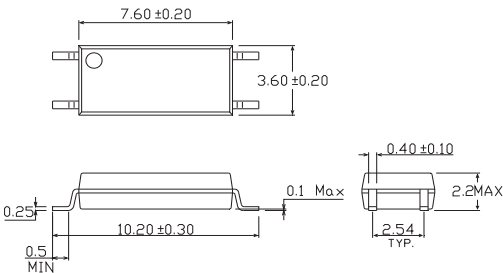


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{OPR} (°C)	Viso (Vrms)
ELD205	4.88x3.92x3.18	High Vceo, Dual channel	1.2	80	0.4	10	40~80	1.6	2.2	5	4	-55~110	3750
ELD206	4.88x3.92x3.18	High Vceo, Dual channel	1.2	80	0.4	10	63~125	1.6	2.2	5	4	-55~110	3750
ELD207	4.88x3.92x3.18	High Vceo, Dual channel	1.2	80	0.4	10	100~200	1.6	2.2	5	4	-55~110	3750
ELD211	4.88x3.92x3.18	High Vceo, Dual channel	1.2	80	0.4	10	>20	1.6	2.2	5	4	-55~110	3750
ELD213	4.88x3.92x3.18	High Vceo, Dual channel	1.2	80	0.4	10	>100	1.6	2.2	5	4	-55~110	3750
ELD217	4.88x3.92x3.18	High Vceo, Dual channel	1.2	80	0.4	1	>100	1.6	2.2	5	4	-55~110	3750

Photo Coupler | Photo Transistor | 4pin Long Creepage



UNIT : mm

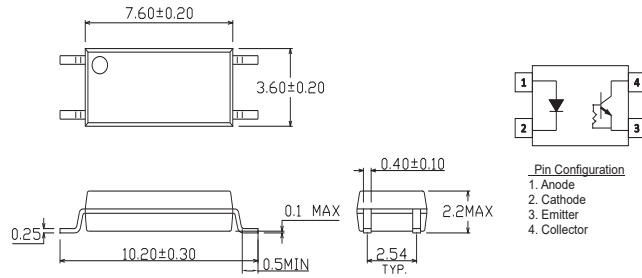


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	ton (μs)	toff (μs)	T _{OPR} (°C)	Viso (Vrms)
EL1010-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	5	50~600	-	-	4	3	-55~110	5000
EL1012-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	10	63~125	-	-	4	3	-55~110	5000
EL1013-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	10	100~200	-	-	4	3	-55~110	5000
EL1014-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	10	160~320	-	-	4	3	-55~110	5000
EL1017-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	5	80~160	-	-	4	3	-55~110	5000
EL1018-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	5	130~260	-	-	4	3	-55~110	5000
EL1019-G	7.6x3.6x2.2	250<CTI<400	1.45	80	0.3	5	200~400	-	-	4	3	-55~110	5000
EL1010-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	5	50~600	-	-	4	3	-55~110	5000
EL1012-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	10	63~125	-	-	4	3	-55~110	5000
EL1013-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	10	100~200	-	-	4	3	-55~110	5000
EL1014-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	10	160~320	-	-	4	3	-55~110	5000
EL1017-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	5	80~160	-	-	4	3	-55~110	5000
EL1018-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	5	130~260	-	-	4	3	-55~110	5000
EL1019-TG	7.6x3.6x2.2	CTI>600	1.45	80	0.3	5	200~400	-	-	4	3	-55~110	5000
EL101L-G	7.6x3.6x2.2	Ultra Low Input Current :0.1mA	1.3	75	0.4	0.1	50~200	-	-	-	-	-55~110	5000
EL1010H-G	7.6x3.6x2.2	TOPR=125°C	1.2	80	0.3	5	50~600	-	-	12	10	-55~125	5000
EL101U-G	7.6x3.6x2.2	Low Input Current :0.5mA, TOPR=125°C	1.3	60	0.4	0.5	50~600	-	-	1	50	-40~125	5000
EV101U-G	7.6x3.6x2.2	Low Input Current :0.5mA, TOPR=125°C, AECQ101 Certified	1.3	60	0.4	0.5	50~600	-	-	1	50	-40~125	5000
ELC101-G	7.6x3.6x2.2	Low Input Current :0.5mA, TOPR=125°C, Flat I _F to CTR	1.3	80	0.3	0.5	50~600	6	8	-	-	-40~125	5000

Photo Coupler ■ Photo Transistor ■ 4pin Long Creepage



UNIT : mm

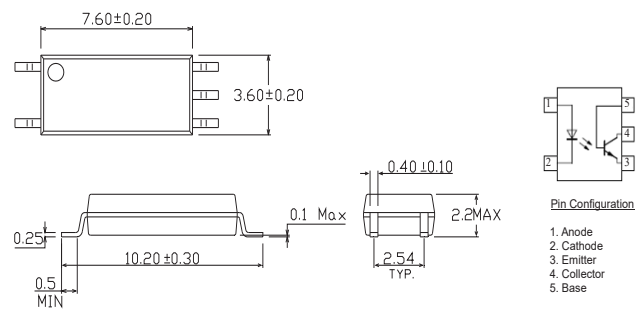


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
ELM2KL-G	7.6x3.6x2.2	TOPR=125°C, 20 Kbps Ton&Toff <30us@RL=10 KΩ	1.3	70	0.3	1	100~600	-	-	30 (max)	30 (max)	-40-125	3750

Photo Coupler ■ Photo Transistor ■ 5pin Long Creepage



UNIT : mm

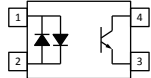
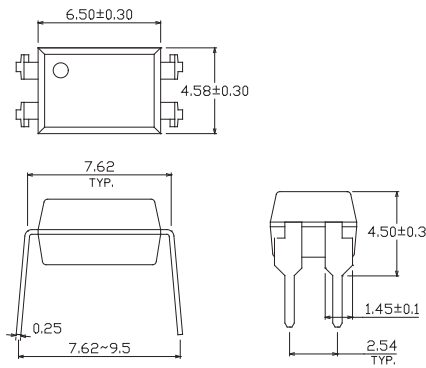


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL1110-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	5	50~600	2	3	4	3	-55-110	5000
EL1112-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	10	63~125	2	3	4	3	-55-110	5000
EL1113-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	10	100~200	2	3	4	3	-55-110	5000
EL1114-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	10	160~320	2	3	4	3	-55-110	5000
EL1116-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	5	100~300	2	3	4	3	-55-110	5000
EL1117-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	5	80~160	2	3	4	3	-55-110	5000
EL1118-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	5	130~260	2	3	4	3	-55-110	5000
EL1119-G	7.6x3.6x2.2	250<CTI<400, with Base Pin Function	1.45	80	0.4	5	200~400	2	3	4	3	-55-110	5000

Photo Coupler | Photo Transistor | 4pin DIP-AC



UNIT : mm



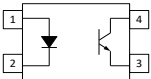
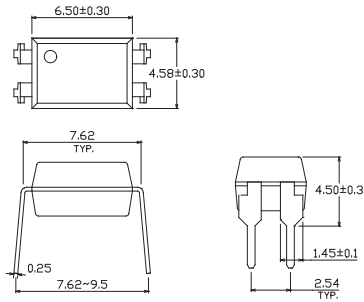
- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	ton (μs)	toff (μs)	T _{OPR} (°C)	Viso (Vrms)
EL814-G	6.5x4.58x3.5	High Vceo	1.2	80	0.2	1	20~300	-	-	-	-	-55~110	5000

Photo Coupler | Photo Transistor | 4pin DIP-DC



UNIT : mm



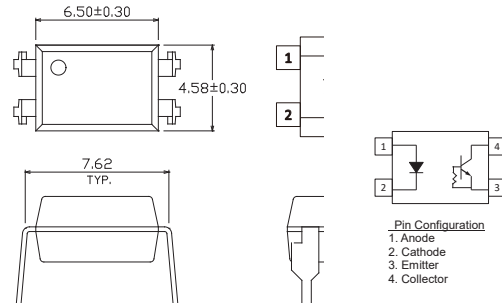
- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	ton (μs)	toff (μs)	T _{OPR} (°C)	Viso (Vrms)
EL816-G	6.5x4.58x3.5	High Vceo	1.2	80	0.2	5	50~600	6	8	-	-	-55~110	5000
EL817-G	6.5x4.58x3.5	High Vceo	1.2	80	0.2	5	50~600	6	8	-	-	-55~110	5000
EL851-G	6.5x4.58x3.5	High VCEO : 350V	1.2	350	0.4	5	50~600	4	5	-	-	-55~100	5000
EL817L-G	6.5x4.58x3.5	Ultra Low Input Current :0.1mA	1.3	75	0.4	0.1	50~200	-	-	-	-	-55~100	5000
EL817H-G	6.5x4.58x3.5	TOPR=125°C	1.2	80	0.35	5	50~600	6	8	-	-	-55~100	5000
ELC816-G	6.5x4.58x3.5	Low Input Current :0.5mA, TOPR=125°C, Flat IF to CTR	1.3	80	0.4	0.5	50~600	6	8	-	-	-55~125	5000

Photo Coupler ■ Photo Transistor ■ 4pin DIP-DC

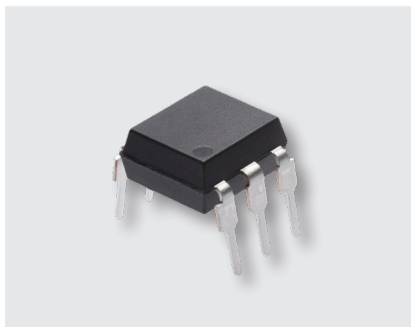


UNIT : mm

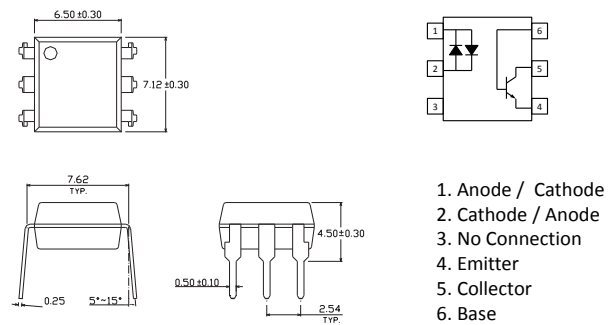


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL2K-G	6.5x4.58x3.5	$TOPR=125^{\circ}C$, 20 Kbps $Ton\&Toff < 30\mu s @ RL=10\ K\Omega$	1.3	70	0.3	1	100~600	-	-	-	-	-40~125	3750

Photo Coupler ■ Photo Transistor ■ 6pin DIP-AC



UNIT : mm

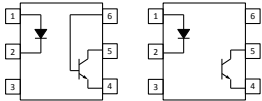
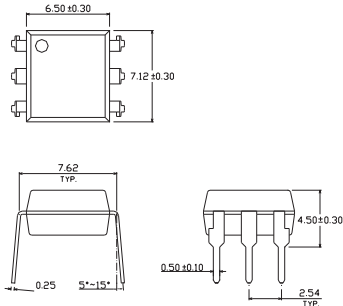


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
H11AA1	7.12x6.5x3.5	High V_{ceo} , with Base Pin Function	1.2	80	0.4	10	>20	10	10	10	10	-55~100	5000
H11AA2	7.12x6.5x3.5	High V_{ceo} , with Base Pin Function	1.2	80	0.4	10	>10	10	10	10	10	-55~100	5000
H11AA3	7.12x6.5x3.5	High V_{ceo} , with Base Pin Function	1.2	80	0.4	10	>50	10	10	10	10	-55~100	5000
H11AA4	7.12x6.5x3.5	High V_{ceo} , with Base Pin Function	1.2	80	0.4	10	>100	10	10	10	10	-55~100	5000

Photo Coupler | Photo Transistor | 6pin DIP-DC



UNIT : mm



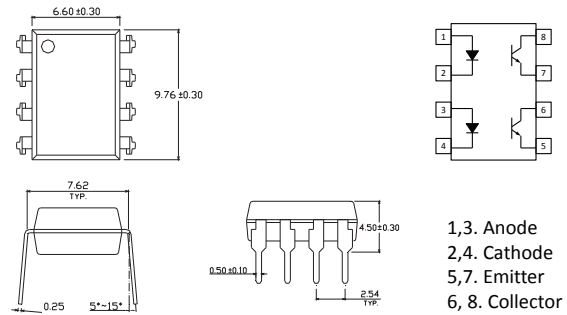
- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. Emitter
- 5. Collector
- 6. Base

Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(SAT)} (Max) (V)	I _F (mA)	CTR (%)	tr (μs)	tf (μs)	ton (μs)	toff (μs)	T _{OPR} (°C)	Viso (Vrms)
4N25	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.5	10	>20	-	-	3	3	-55~110	5000
4N26	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.5	10	>20	-	-	3	3	-55~110	5000
4N27	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.5	10	>10	-	-	3	3	-55~110	5000
4N28	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.5	10	>10	-	-	3	3	-55~110	5000
4N35	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.3	10	>100	-	-	10	9	-55~110	5000
4N36	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.3	10	>100	-	-	10	9	-55~110	5000
4N37	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.3	10	>100	-	-	10	9	-55~110	5000
4N38	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	1	10	>20	-	-	10	9	-55~110	5000
H11A1	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.4	10	>50	-	-	3	3	-55~110	5000
H11A2	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.4	10	>20	-	-	3	3	-55~110	5000
H11A3	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.4	10	>20	-	-	3	3	-55~110	5000
H11A4	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.4	10	>10	-	-	3	3	-55~110	5000
H11A5	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.2	80	0.4	10	>30	-	-	3	3	-55~110	5000
CNY17-1	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.65	80	0.3	10	40~80	6	8	10	9	-55~110	5000
CNY17-2	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.65	80	0.3	10	63~125	6	8	10	9	-55~110	5000
CNY17-3	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.65	80	0.3	10	100~200	6	8	10	9	-55~110	5000
CNY17-4	7.12x6.5x3.5	High Vceo, with Base Pin Function	1.65	80	0.3	10	160~320	6	8	10	9	-55~110	5000
CNY17F-1	7.12x6.5x3.5	High Vceo, without Base Pin Function	1.65	80	0.3	10	40~80	6	8	10	9	-55~110	5000
CNY17F-2	7.12x6.5x3.5	High Vceo, without Base Pin Function	1.65	80	0.3	10	63~125	6	8	10	9	-55~110	5000
CNY17F-3	7.12x6.5x3.5	High Vceo, without Base Pin Function	1.65	80	0.3	10	100~200	6	8	10	9	-55~110	5000
CNY17F-4	7.12x6.5x3.5	High Vceo, without Base Pin Function	1.65	80	0.3	10	160~320	6	8	10	9	-55~110	5000

Photo Coupler ■ Photo Transistor ■ 8pin DIP-DC



UNIT : mm

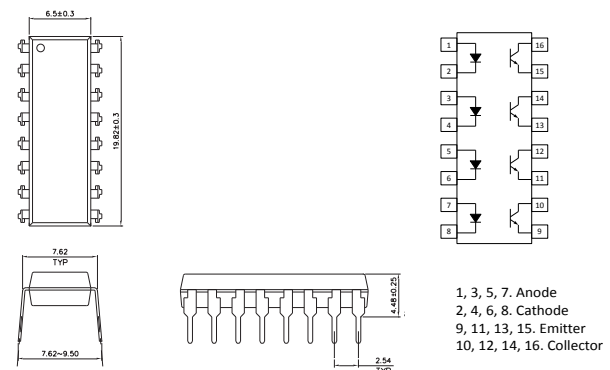


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL827	9.76x6.6x3.5	High Vceo, Dual channel	1.2	80	0.2	5	50~600	3	4	-	-	-55~110	5000

Photo Coupler ■ Photo Transistor ■ 16pin DIP-DC



UNIT : mm

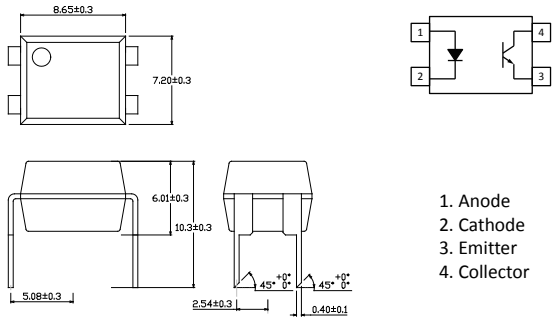


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL847	19.82x6.5x3.5	4CH, High Vceo	1.2	80	0.2	5	50~600	6	8	-	-	-55~110	5000

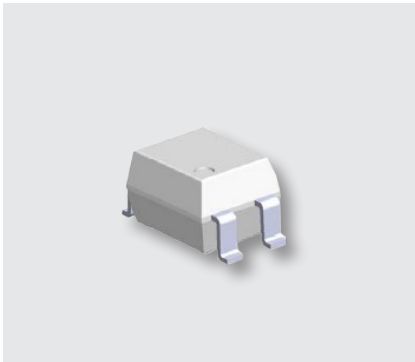
Photo Coupler | Photo Transistor | 4Pin High Isolation



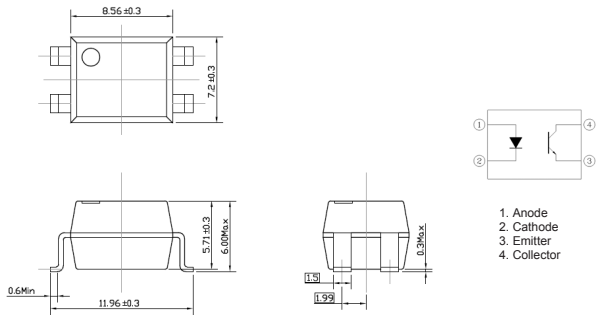
UNIT : mm



Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
CNY64	8.65x7.2x6.01	Viso=8KV, Creepage Distance > 10mm	1.6	80	0.3	5	50~300	3	5	6	7	-55-85	8200



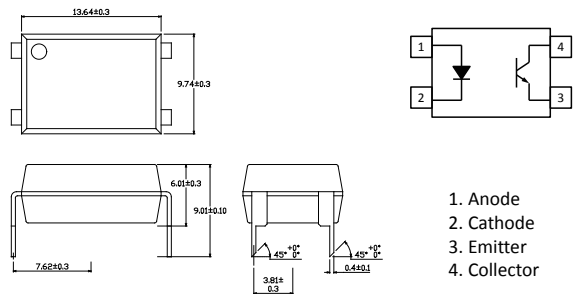
UNIT : mm



Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
CNY64S	8.56x7.2x6.01	Viso=8KV, Creepage Distance > 10mm	1.6	80	0.3	5	50~300	3	5	6	7	-55-85	8200

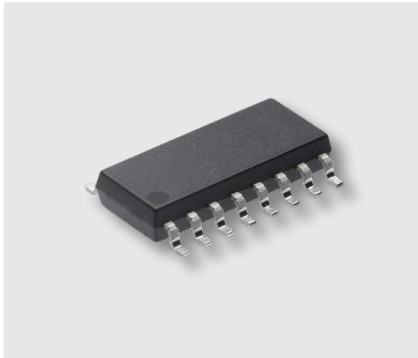


UNIT : mm

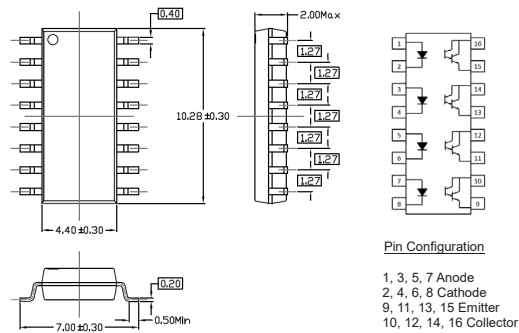


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
CNY65	13.64x9.74x6.01	Viso=8KV, Creepage Distance > 15mm	1.6	80	0.3	5	50~300	3	5	6	7	-55-85	8200

Photo Coupler | Photo Transistor | 16pin SSOP-DC



UNIT : mm

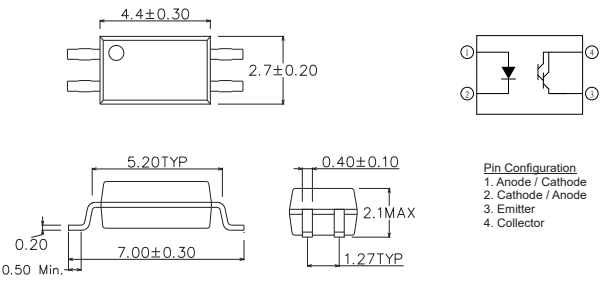


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
ELQ3H5-G	10.28x4.4x2	4 CH, Darlington High CTR with small package	1.1	40	1	1	200~7500	80	75	-	-	-55-100	3750

Photo Coupler | Photo Darlington | 4pin SSOP-DC



UNIT : mm



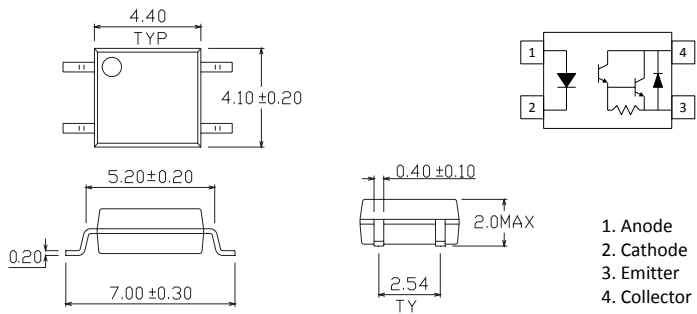
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EL3H5-G	4.4x2.7x2.1	Darlington High CTR with small package	1.1	40	1	1	200~7500	80	75	-	-	-55-100	3750

Photo Coupler

Photo Coupler ■ Photo Darlington ■ 4Pin DIP-DC



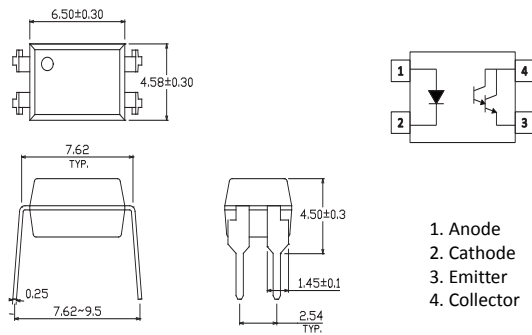
UNIT : mm



Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL452-G	4.4x4.1x2	Darlington High CTR with small package	1.2	350	1.5	1	>1000	80	10	-	-	-55-110	3750



UNIT : mm

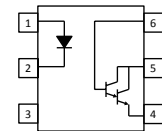
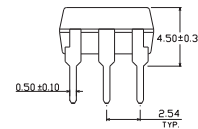
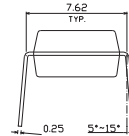
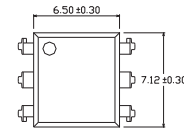


Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL815-G	6.5x4.58x3.5	Darlington High CTR	1.2	35	1	1	600~7500	60	53	-	-	-55-110	5000
EL852-G	6.5x4.58x3.5	Darlington High CTR, High VCEO:350V	1.2	350	1.2	1	1000~15000	300	100	-	-	-55-100	5000

Photo Coupler ■ Photo Darlington ■ 6Pin DIP-DC



UNIT : mm



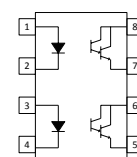
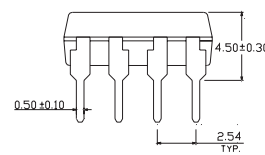
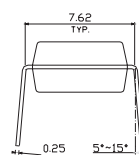
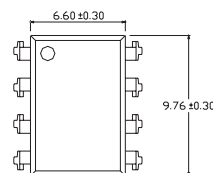
1. Anode
2. Cathode
3. No Connection
4. Emitter
5. Collector
6. Base

Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
4N29	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	10	>100	-	-	5	40	-55-100	5000
4N30	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	10	>100	-	-	5	40	-55-100	5000
4N31	7.12x6.5x3.5	Darlington High CTR	1.2	55	1.2	10	>50	-	-	5	40	-55-100	5000
4N32	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	10	>500	-	-	5	100	-55-100	5000
4N33	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	10	>500	-	-	5	100	-55-100	5000
H11B1	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	1	>500	-	-	25	18	-55-100	5000
H11B2	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	1	>200	-	-	25	18	-55-100	5000
H11B3	7.12x6.5x3.5	Darlington High CTR	1.2	55	1	1	>100	-	-	25	18	-55-100	5000
TIL113	7.12x6.5x3.5	Darlington High CTR	1.2	55	1.2	10	>300	-	-	5	100	-55-100	5000

Photo Coupler ■ Photo Darlington ■ 8Pin DIP-DC



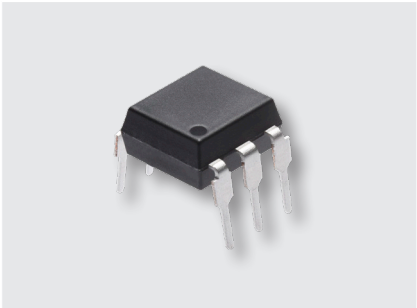
UNIT : mm



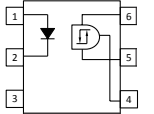
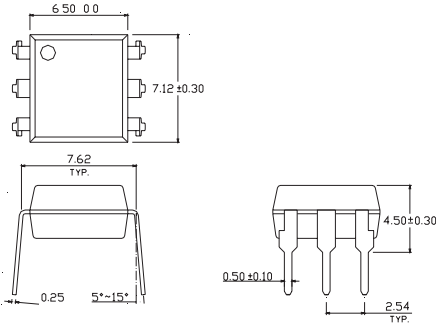
- 1, 3. Anode
- 2, 4. Cathode
- 5, 7. Emitter
- 6, 8. Collector

Product	Dimension (mm)	Feature	V_F (V)	BV_{CEO} (Min) (V)	$V_{CE(SAT)}$ (Max) (V)	I_F (mA)	CTR (%)	t_r (μs)	t_f (μs)	t_{on} (μs)	t_{off} (μs)	T_{OPR} (°C)	Viso (Vrms)
EL825	9.76x6.6x3.5	Darlington High CTR, Dual CH	1.2	40	1	1	600~7500	60	53	-	-	-55-110	5000

Photo Coupler | Schmitt Trigger | 6Pin DIP-DC



UNIT : mm



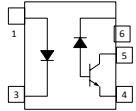
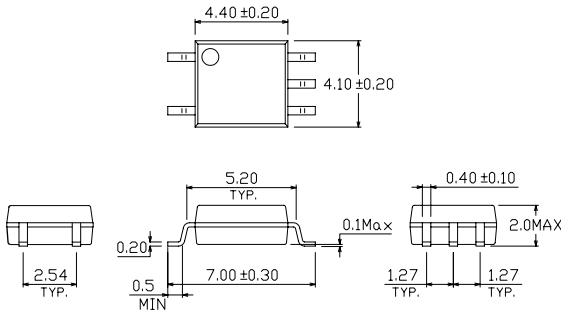
- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. V_O
- 5. GND
- 6. V_{CC}

Product	Dimension(mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{ON} (ns)	t _{OFF} (ns)	T _{OPR} (°C)	Viso (Vrms)
H11L1	7.12x6.5x3.5	1M bps H to L, Schmitt trigger	3-15	1.6	4	4	-55-100	5000
H11L2	7.12x6.5x3.5	1M bps H to L, Schmitt trigger	3-15	10	4	4	-55-100	5000
H11L3	7.12x6.5x3.5	1M bps H to L, Schmitt trigger	3-15	5	4	4	-55-100	5000

Photo Coupler | High Speed | 5Pin SOP-DC



UNIT : mm



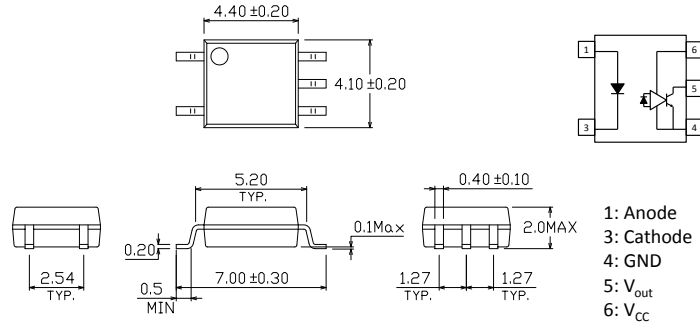
- 1: Anode
- 3: Cathode
- 4: GND
- 5: V_{out}
- 6: V_{CC}

Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELM452	4.4x4.1x2	1M bps H to L, Open-Collector Output, CTR type	30	-	>15	800	800	5000	-40-85	3750
ELM453	4.4x4.1x2	1M bps H to L, Open-Collector Output, CTR type	30	-	>15	800	800	15000	-40-85	3750
ELM453H	4.4x4.1x2	1M bps H to L, Open-Collector Output, CTR type, High TOPR	30	-	>25	1000	1000	1000	-40-125	3750
ELM456	4.4x4.1x2	1M bps H to L, IPM driver, Open-Collector Output, Threshold type	30	5	-	400	600	10000	-40-100	3750
ELM600	4.4x4.1x2	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	100	100	-	-40-85	3750
ELM601	4.4x4.1x2	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	100	100	5000	-40-85	3750
ELM611	4.4x4.1x2	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	100	100	20000	-40-85	3750
ELM611H	4.4x4.1x2	10M bps H to L, Open-Collector Output, Threshold type, High TOPR	7	5	-	100	100	15000	-40-125	3750

Photo Coupler ■ High Speed ■ 5Pin SOP



UNIT : mm

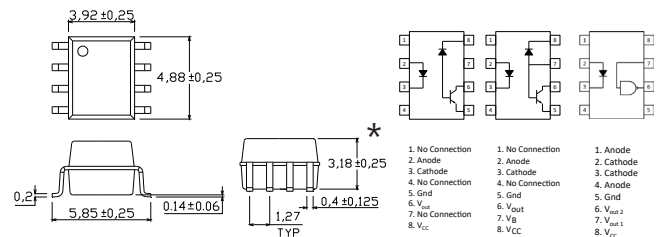


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELM680	4.4x4.1x2	1M bps H to H, IPM driver, Totem Pole Output, Threshold type, DC input	30	5	400	400	10000	-40-85	3750
ELM684	4.4x4.1x2	1M bps H to H, IPM driver, Totem Pole Output, Threshold type, AC input	30	5	400	400	10000	-40-85	3750
ELM61A	4.4x4.1x2	10M bps H to H, Totem Pole Output, Threshold type, Low IFT	7	1.6	80	80	15000	-40-105	3750
ELM81L	4.4x4.1x2	15M bps H to L, Totem Pole Output, Threshold type	7	5	60	60	10000	-40-85	3750

Photo Coupler ■ High Speed ■ 8Pin SOP-DC



UNIT : mm



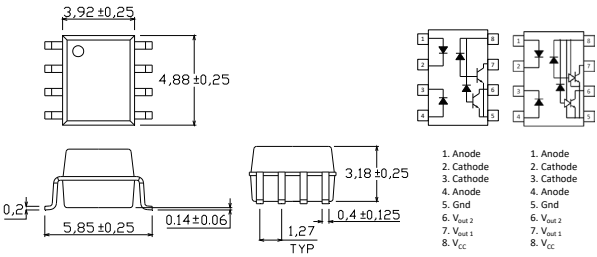
Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
*EL0452	4.88x3.92x3.18	1M bps H to L, Open-Collector Output, CTR type	30	-	19~50	800	800	-	-55-100	3750
*EL0453	4.88x3.92x3.18	1M bps H to L, Open-Collector Output, CTR type	30	-	19~50	800	800	15000	-55-100	3750
EL0500	4.88x3.92x3.18	1M bps H to L, Open-Collector Output, CTR type	30	-	7~50	1500	1500	-	-55-100	3750
EL0501	4.88x3.92x3.18	1M bps H to L, Open-Collector Output, CTR type	30	-	19~50	800	800	-	-55-100	3750
EL0600	4.88x3.92x3.18	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	75	75	-	-40-100	3750
EL0601	4.88x3.92x3.18	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	75	75	5000	-40-100	3750
EL0611	4.88x3.92x3.18	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	75	75	10000	-40-100	3750

Star mark * : Please refer to the schematic of Pin configuration with " ★ " mark

Photo Coupler | High Speed | 8pin SOP-DC

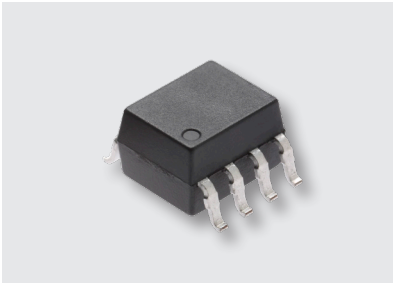


UNIT : mm

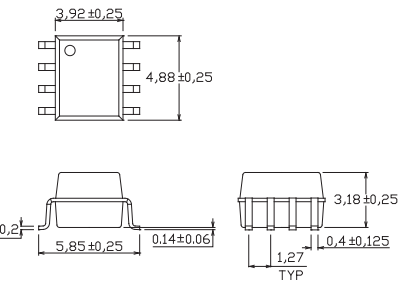


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
**EL0530	4.88x3.92x3.18	1M bps H to L, Dual CH, Open-Collector Output, CTR type	30	-	7~50	1500	1500	1000	-55-100	3750
**EL0531	4.88x3.92x3.18	1M bps H to L, Dual CH, Open-Collector Output, CTR type	30	-	19~50	800	800	1000	-55-100	3750
**EL0631	4.88x3.92x3.18	10M bps H to L, Dual CH, Open-Collector Output, Threshold type	7	5	-	100	100	10000	-40-100	3750

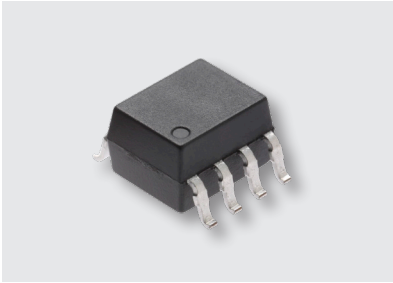
Star mark * : Please refer to the schematic of Pin configuration with " * " " * " mark



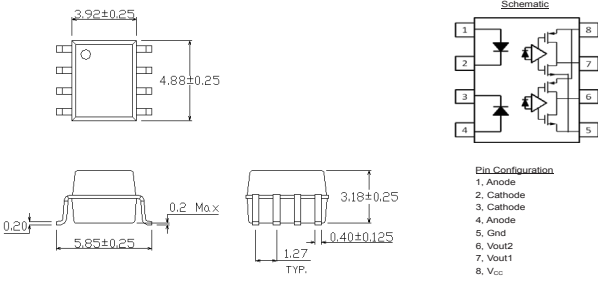
UNIT : mm



Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
EL0700	4.88x3.92x3.18	100K bps H to L, Darlington Open-Collector Output, CTR type	7	300(min)	10000	35000	1000	-40-85	3750
EL0701	4.88x3.92x3.18	100K bps H to L, Darlington Open-Collector Output, CTR type	18	500(min)	25000	60000	1000	-40-85	3750

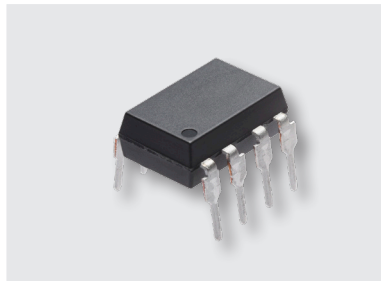


UNIT : mm

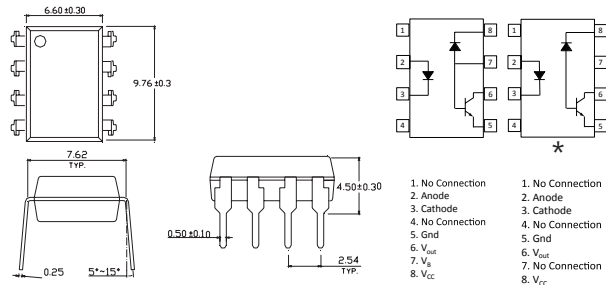


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
EL083L	4.88x3.92x3.18	15M bps H to L, Dual CH, Totem Pole Output, Threshold type	7	5	60	60	10000	-40-85	3750

Photo Coupler ■ High Speed ■ 8pin DIP-DC



UNIT : mm

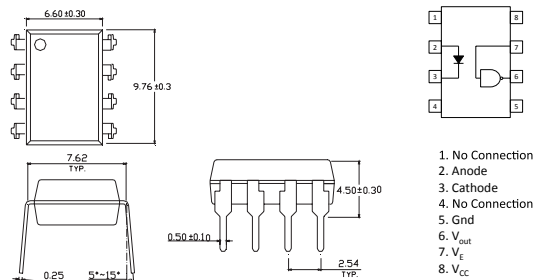


Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	tPHL (ns)	tPLH (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
6N135	9.76x6.6x3.5	1M bps H to L, Open-Collector Output, CTR type	30	7~50	1500	1500	1000	-55-100	5000
6N136	9.76x6.6x3.5	1M bps H to L, Open-Collector Output, CTR type	30	19~50	800	800	1000	-55-100	5000
*EL4502	9.76x6.6x3.5	1M bps H to L, Open-Collector Output, CTR type	30	19~50	800	800	1000	-55-100	5000
*EL4503	9.76x6.6x3.5	1M bps H to L, Open-Collector Output, CTR type	30	19~50	800	800	15000	-55-100	5000
*EL4504	9.76x6.6x3.5	1M bps H to L, Open-Collector Output, CTR type	30	>21	800	800	15000	-55-100	5000

Star mark * : Please refer to the schematic of Pin configuration with " * " " * * " " * * " mark

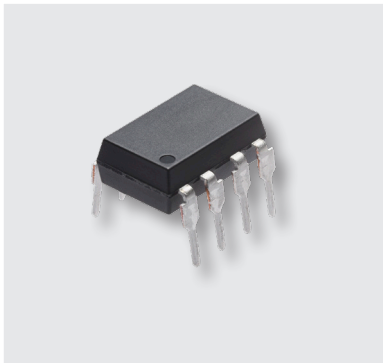


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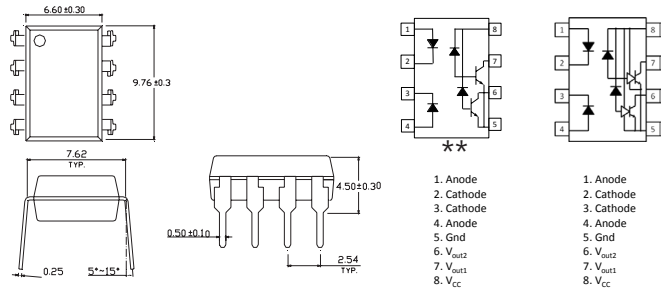


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	tPHL (ns)	tPLH (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
6N137	9.76x6.6x3.5	10M bps H to L, Open-Collector Output, Threshold type	7	5	75	75	-	-40-85	5000
EL2601	9.76x6.6x3.5	10M bps H to L, Open-Collector Output, Threshold type	7	5	75	75	5000	-40-85	5000
EL2611	9.76x6.6x3.5	10M bps H to L, Open-Collector Output, Threshold type	7	5	75	75	10000	-40-85	5000

Photo Coupler ■ High Speed ■ 8pin DIP-DC



UNIT : mm



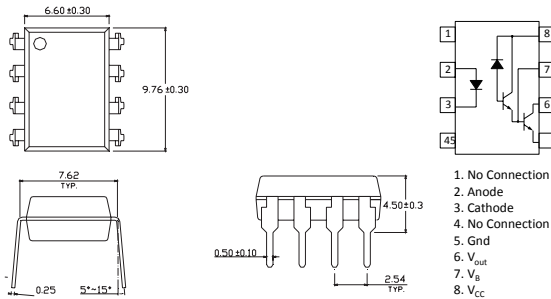
Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
**EL2530	9.76x6.6x3.5	1M bps H to L, Dual CH, Open-Collector Output, CTR type	30	-	7~50	1500	1500	1000	-40~100	5000
**EL2531	9.76x6.6x3.5	1M bps H to L, Dual CH, Open-Collector Output, CTR type	30	-	19~50	800	800	1000	-40~100	5000
EL2630	9.76x6.6x3.5	10M bps H to L, Dual CH, Open-Collector Output, Threshold type	7	5	-	100	100	5000	-40~100	5000
EL2631	9.76x6.6x3.5	10M bps H to L, Dual CH, Open-Collector Output, Threshold type	7	5	-	100	100	10000	-40~100	5000

Star mark * : Please refer to the schematic of Pin configuration with " * " " ** " mark

Photo Coupler

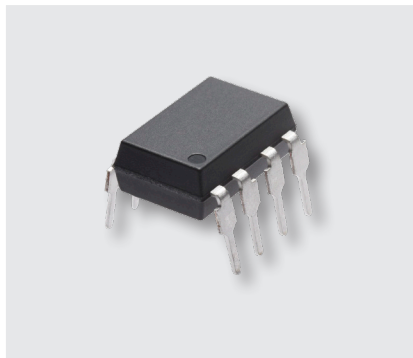


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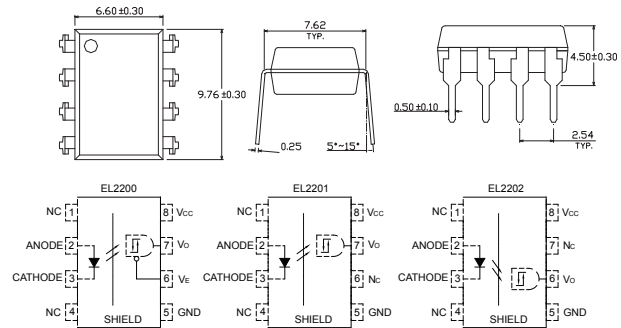


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
6N138	9.76x6.6x3.5	100K bps H to L, Darlington Open-Collector Output, CTR type	7	-	300(min)	10000	35000	1000	-40~85	5000
6N139	9.76x6.6x3.5	100K bps H to L, Darlington Open-Collector Output, CTR type	18	-	500(min)	25000	60000	1000	-40~85	5000

Photo Coupler ■ High Speed ■ 8pin DIP-DC

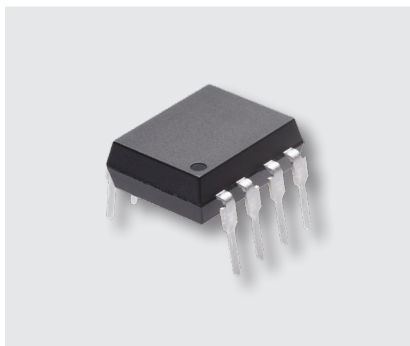


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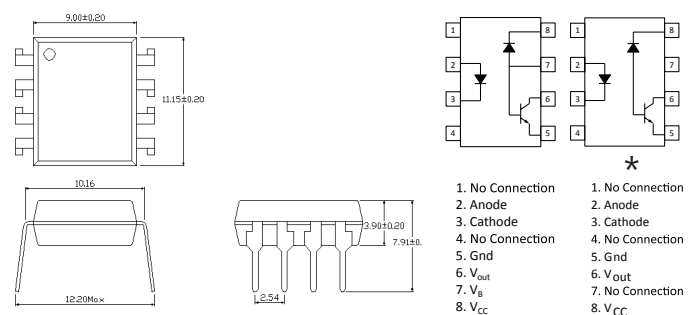


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{FT} (mA)	tPHL (ns)	tPLH (ns)	CMR (V/us)	T_{OPR} (°C)	Viso (Vrms)
EL2200	9.76x6.6x3.5	5M bps H to H, IPM driver, Totem Pole Output, Threshold type	20	1.6	300	300	1000	-40-85	5000
EL2201	9.76x6.6x3.5	5M bps H to H, IPM driver, Totem Pole Output, Threshold type	20	1.6	300	300	1000	-40-85	5000
EL2202	9.76x6.6x3.5	5M bps H to H, IPM driver, Totem Pole Output, Threshold type	20	1.6	300	300	1000	-40-85	5000

Photo Coupler ■ High Speed ■ 8Pin Wide Body DIP-DC



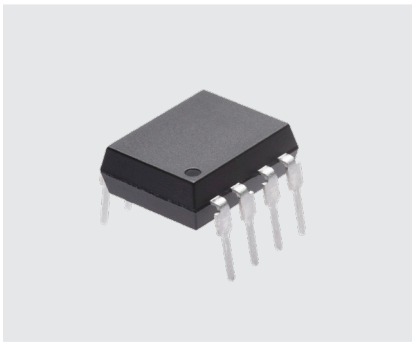
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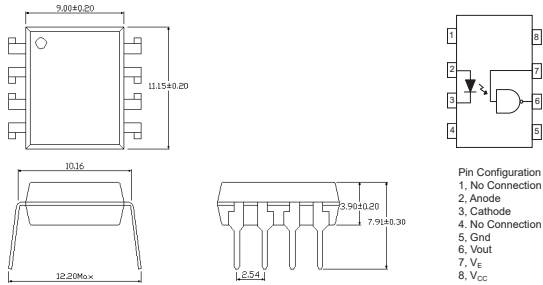
Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	tPHL (ns)	tPLH (ns)	CMR (V/us)	T_{OPR} (°C)	Viso (Vrms)
ELW135	11.15x9x3.9	1M bps H to L, Open-Collector Output, CTR type, 400mil widy body	30	7~50	1500	1500	1000	-55-100	5000
ELW136	11.15x9x3.9	1M bps H to L, Open-Collector Output, CTR type, 400mil widy body	30	19~50	800	800	1000	-55-100	5000
*ELW4503	11.15x9x3.9	1M bps H to L, Open-Collector Output, CTR type, 400mil widy body	30	19~50	800	800	15000	-55-100	5000

Star mark * : Please refer to the schematic of Pin configuration with " * " " ** " mark

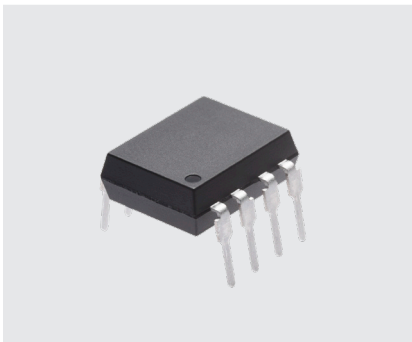
Photo Coupler ■ High Speed ■ 8Pin Wide Body DIP-DC



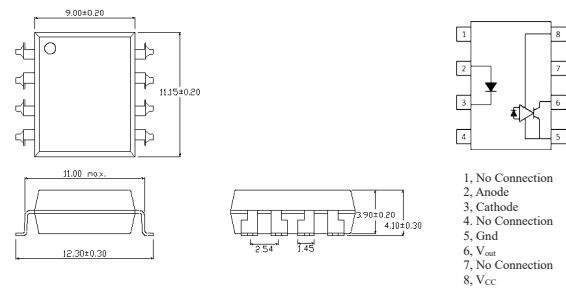
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Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELW137	11.15x9x3.9	10M bps H to L, Open-Collector Output, Threshold type, 400mil widy body	7	5	-	100	100	-	-40-85	5000
ELW2601	11.15x9x3.9	10M bps H to L, Open-Collector Output, Threshold type, 400mil widy body	7	5	-	100	100	5000	-40-85	5000
ELW2611	11.15x9x3.9	10M bps H to L, Open-Collector Output, Threshold type, 400mil widy body	7	5	-	100	100	10000	-40-85	5000



UNIT : mm

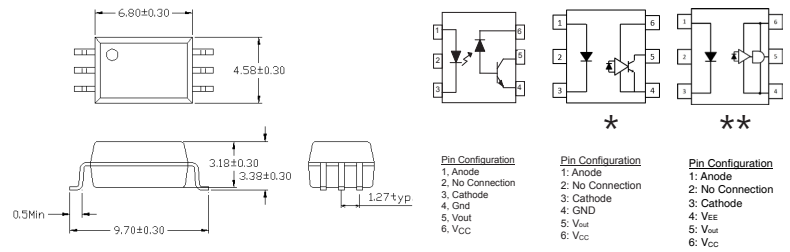


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELW4506	11.15x9x3.9	1M bps H to L, IPM driver, Open-Collector Output, Threshold type, 400mil widy body	30	5	400	600	10000	-40-100	5000

Photo Coupler ■ High Speed ■ 6Pin SDIP-DC

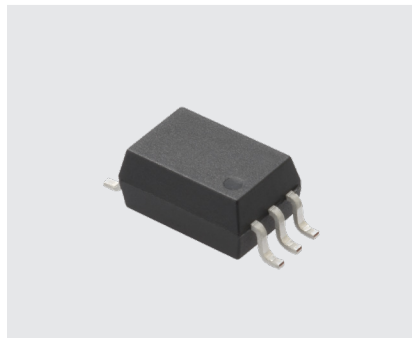


UNIT : mm

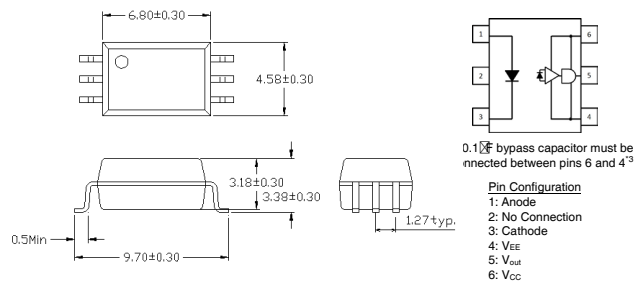


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELS511	6.8x4.58x3.18	1M bps H to L, Open-Collector Output, CTR type	30	-	20(min)	1500	1500	5000	-40-85	5000
*ELS611	6.8x4.58x3.18	10M bps H to L, Open-Collector Output, Threshold type	7	5	-	100	100	5000	-40-85	5000
ELS456	6.8x4.58x3.18	1M bps H to L, IPM driver, Open-Collector Output, Threshold type	30	5	-	400	600	10000	-40-100	5000

Star mark * : Please refer to the schematic of Pin configuration with " * " " * * " mark



UNIT : mm

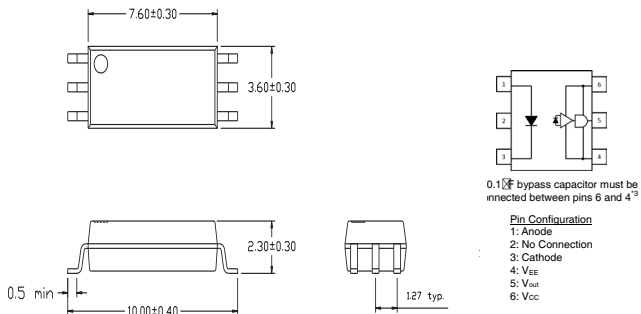


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELS680	6.8x4.58x3.18	1M bps H to H, IPM driver, Totem Pole Output, Threshold type	30	5	350	350	10000	-40-100	5000

Photo Coupler ■ High Speed ■ 6Pin LSOP



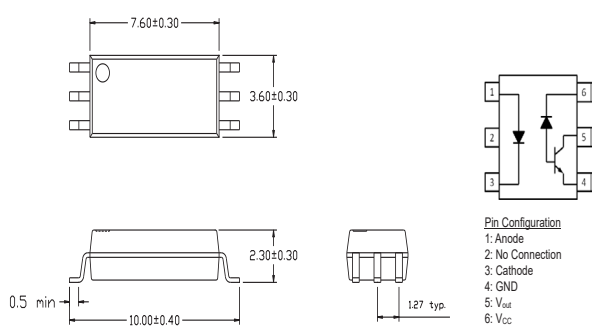
UNIT : mm



Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
EL6880	7.6x3.6x2.3	10M bps H to H, IPM driver, Totem Pole Output, Threshold type	30	1.6	120	120	10000	-40-100	5000



UNIT : mm

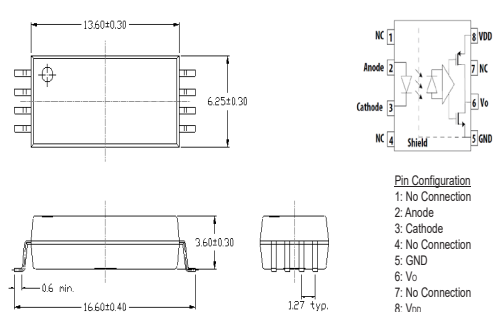


Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
EL2751	7.6x3.6x2.3	1M bps H to L, Open-Collector Output, CTR type	30	20(min)	1500	1500	5000	-40-100	5000

Photo Coupler ■ High Speed ■ 8Pin 15mm LLSOP-DC



UNIT : mm

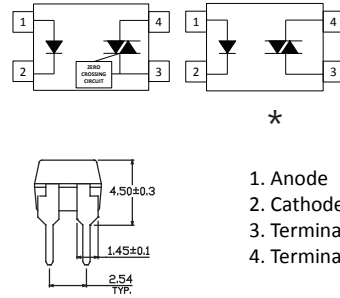
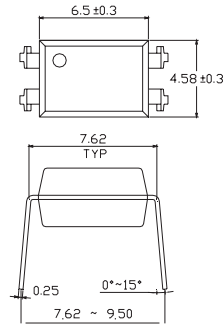


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PHL} (ns)	t _{PLH} (ns)	CMR (V/us)	T _{OPR} (°C)	Viso (Vrms)
ELH61A	13.6x6.25x3.6	10M bps H to H, Totem Pole Output, Threshold type, 15mm Creepage, CTI>600	7	3.8	100	100	20000	-40-100	7500

Photo Coupler | Triac Driver | 4Pin DIP-DC



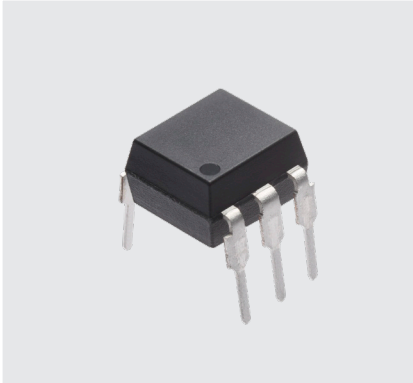
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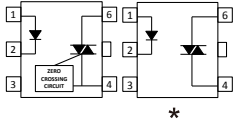
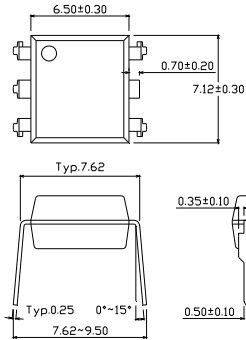
Product	Dimension (mm)	Feature	V_F (V)	V_{DRM} (Max) (V)	V_{TM} (V)	V_{INH} (V)	$I_{T\ rms}$ (mA)	I_{FT} (mA)	T_{OPR} (°C)	Viso (Vrms)
ELT3041	6.5x4.58x3.5	400V VDRM Zero-cross	1.5	400	3	20	70	15	-55-100	5000
ELT3042	6.5x4.58x3.5	400V VDRM Zero-cross	1.5	400	3	20	70	10	-55-100	5000
ELT3043	6.5x4.58x3.5	400V VDRM Zero-cross	1.5	400	3	20	70	5	-55-100	5000
ELT3061	6.5x4.58x3.5	600V VDRM Zero-cross	1.5	600	3	20	70	15	-55-100	5000
ELT3062	6.5x4.58x3.5	600V VDRM Zero-cross	1.5	600	3	20	70	10	-55-100	5000
ELT3063	6.5x4.58x3.5	600V VDRM Zero-cross	1.5	600	3	20	70	5	-55-100	5000
ELT3081	6.5x4.58x3.5	800V VDRM Zero-cross	1.5	800	3	20	70	15	-55-100	5000
ELT3082	6.5x4.58x3.5	800V VDRM Zero-cross	1.5	800	3	20	70	10	-55-100	5000
ELT3083	6.5x4.58x3.5	800V VDRM Zero-cross	1.5	800	3	20	70	5	-55-100	5000
*ELT3021	6.5x4.58x3.5	400V VDRM Random Phase	1.5	400	2.5	-	70	15	-55-100	5000
*ELT3022	6.5x4.58x3.5	400V VDRM Random Phase	1.5	400	2.5	-	70	10	-55-100	5000
*ELT3023	6.5x4.58x3.5	400V VDRM Random Phase	1.5	400	2.5	-	70	5	-55-100	5000
*ELT3051	6.5x4.58x3.5	600V VDRM Random Phase	1.5	600	2.5	-	70	15	-55-100	5000
*ELT3052	6.5x4.58x3.5	600V VDRM Random Phase	1.5	600	2.5	-	70	10	-55-100	5000
*ELT3053	6.5x4.58x3.5	600V VDRM Random Phase	1.5	600	2.5	-	70	5	-55-100	5000

Star mark * : Please refer to the schematic of Pin configuration with " ★ " mark

Photo Coupler | Triac Driver | 5Pin DIP-DC



UNIT : mm



- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. Terminal
- 5. Pin Cut
- 6. Terminal

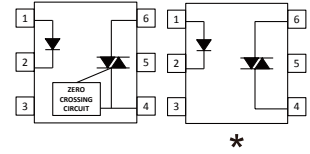
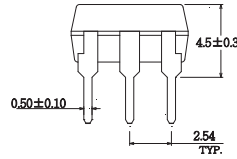
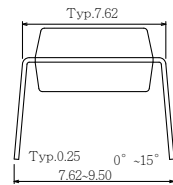
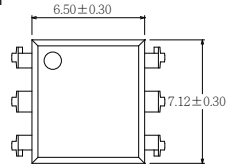
Product	Dimension (mm)	Feature	V_F (V)	$V_{DRM} (Max)$ (V)	V_{TM} (V)	V_{INH} (V)	$I_{T,rms}$ (mA)	I_{FT} (mA)	T_{OPR} (°C)	Viso (Vrms)
EL3031(P5)	7.12x6.5x3.5	250V VDRM Zero-cross	1.5	250	3	20	100	15	-55-100	5000
EL3032(P5)	7.12x6.5x3.5	250V VDRM Zero-cross	1.5	250	3	20	100	10	-55-100	5000
EL3033(P5)	7.12x6.5x3.5	250V VDRM Zero-cross	1.5	250	3	20	100	5	-55-100	5000
EL3041(P5)	7.12x6.5x3.5	400V VDRM Zero-cross	1.5	400	3	20	100	15	-55-100	5000
EL3042(P5)	7.12x6.5x3.5	400V VDRM Zero-cross	1.5	400	3	20	100	10	-55-100	5000
EL3043(P5)	7.12x6.5x3.5	400V VDRM Zero-cross	1.5	400	3	20	100	5	-55-100	5000
EL3061(P5)	7.12x6.5x3.5	600V VDRM Zero-cross	1.5	600	3	20	100	15	-55-100	5000
EL3062(P5)	7.12x6.5x3.5	600V VDRM Zero-cross	1.5	600	3	20	100	10	-55-100	5000
EL3063(P5)	7.12x6.5x3.5	600V VDRM Zero-cross	1.5	600	3	20	100	5	-55-100	5000
EL3081(P5)	7.12x6.5x3.5	800V VDRM Zero-cross	1.5	800	3	20	100	15	-55-100	5000
EL3082(P5)	7.12x6.5x3.5	800V VDRM Zero-cross	1.5	800	3	20	100	10	-55-100	5000
EL3083(P5)	7.12x6.5x3.5	800V VDRM Zero-cross	1.5	800	3	20	100	5	-55-100	5000
*EL3010(P5)	7.12x6.5x3.5	250V VDRM Random Phase	1.5	250	2.5	-	100	15	-55-100	5000
*EL3011(P5)	7.12x6.5x3.5	250V VDRM Random Phase	1.5	250	2.5	-	100	10	-55-100	5000
*EL3012(P5)	7.12x6.5x3.5	250V VDRM Random Phase	1.5	250	2.5	-	100	5	-55-100	5000
*EL3021(P5)	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	15	-55-100	5000
*EL3022(P5)	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	10	-55-100	5000
*EL3023(P5)	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	5	-55-100	5000
*EL3051(P5)	7.12x6.5x3.5	600V VDRM Random Phase	1.5	600	2.5	-	100	15	-55-100	5000
*EL3052(P5)	7.12x6.5x3.5	600V VDRM Random Phase	1.5	600	2.5	-	100	10	-55-100	5000
*EL3053(P5)	7.12x6.5x3.5	600V VDRM Random Phase	1.5	600	2.5	-	100	5	-55-100	5000
EL3071(P5)	7.12x6.5x3.5	800V VDRM Random Phase	1.5	800	2.5	-	100	15	-55-100	5000
EL3072(P5)	7.12x6.5x3.5	800V VDRM Random Phase	1.5	800	2.5	-	100	10	-55-100	5000
EL3073(P5)	7.12x6.5x3.5	800V VDRM Random Phase	1.5	800	2.5	-	100	5	-55-100	5000

Star mark * : Please refer to the schematic of Pin configuration with " * " mark

Photo Coupler | Triac Driver | 6Pin DIP-DC



UNIT : mm



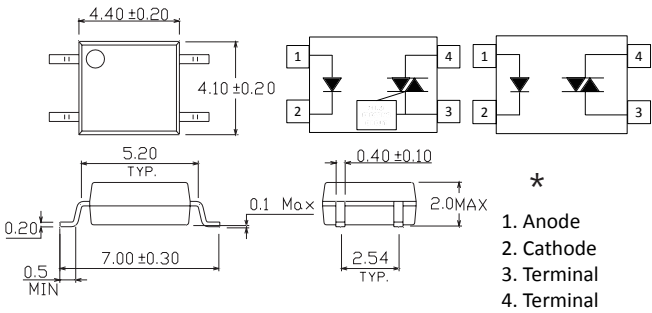
- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. Terminal
- 5. Substrate (do not connect)
- 6. Terminal

Product	Dimension (mm)	Feature	V _F (V)	V _{DRM} (Max) (V)	V _{TM} (V)	V _{INH} (V)	I _{T rms} (mA)	I _{FT} (mA)	T _{OPR} (°C)	Viso (Vrms)
EL3031	7.12x6.5x3.5	250V VDRM Zero-cross	1.5	250	3	20	100	15	-55-100	5000
EL3032	7.12x6.5x3.5	250V VDRM Zero-cross	1.5	250	3	20	100	10	-55-100	5000
EL3033	7.12x6.5x3.5	250V VDRM Zero-cross	1.5	250	3	20	100	5	-55-100	5000
EL3041	7.12x6.5x3.5	400V VDRM Zero-cross	1.5	400	3	20	100	15	-55-100	5000
EL3042	7.12x6.5x3.5	400V VDRM Zero-cross	1.5	400	3	20	100	10	-55-100	5000
EL3043	7.12x6.5x3.5	400V VDRM Zero-cross	1.5	400	3	20	100	5	-55-100	5000
EL3061	7.12x6.5x3.5	600V VDRM Zero-cross	1.5	600	3	20	100	15	-55-100	5000
EL3062	7.12x6.5x3.5	600V VDRM Zero-cross	1.5	600	3	20	100	10	-55-100	5000
EL3063	7.12x6.5x3.5	600V VDRM Zero-cross	1.5	600	3	20	100	5	-55-100	5000
EL3081	7.12x6.5x3.5	800V VDRM Zero-cross	1.5	800	3	20	100	15	-55-100	5000
EL3082	7.12x6.5x3.5	800V VDRM Zero-cross	1.5	800	3	20	100	10	-55-100	5000
EL3083	7.12x6.5x3.5	800V VDRM Zero-cross	1.5	800	3	20	100	5	-55-100	5000
*EL3010	7.12x6.5x3.5	250V VDRM Random Phase	1.5	250	2.5	-	100	15	-55-100	5000
*EL3011	7.12x6.5x3.5	250V VDRM Random Phase	1.5	250	2.5	-	100	10	-55-100	5000
*EL3012	7.12x6.5x3.5	250V VDRM Random Phase	1.5	250	2.5	-	100	5	-55-100	5000
*EL3020	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	30	-55-100	5000
*EL3021	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	15	-55-100	5000
*EL3022	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	10	-55-100	5000
*EL3023	7.12x6.5x3.5	400V VDRM Random Phase	1.5	400	2.5	-	100	5	-55-100	5000
*EL3051	7.12x6.5x3.5	600V VDRM Random Phase	1.5	600	2.5	-	100	15	-55-100	5000
*EL3052	7.12x6.5x3.5	600V VDRM Random Phase	1.5	600	2.5	-	100	10	-55-100	5000
*EL3053	7.12x6.5x3.5	600V VDRM Random Phase	1.5	600	2.5	-	100	5	-55-100	5000
EL3071	7.12x6.5x3.5	800V VDRM Random Phase	1.5	800	2.5	-	100	15	-55-100	5000
EL3072	7.12x6.5x3.5	800V VDRM Random Phase	1.5	800	2.5	-	100	10	-55-100	5000
EL3073	7.12x6.5x3.5	800V VDRM Random Phase	1.5	800	2.5	-	100	5	-55-100	5000

Photo Coupler | Triac Driver | 4Pin SOP



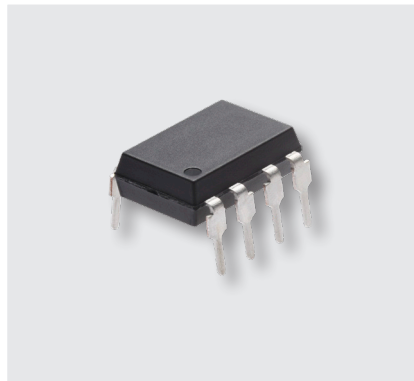
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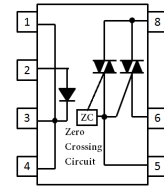
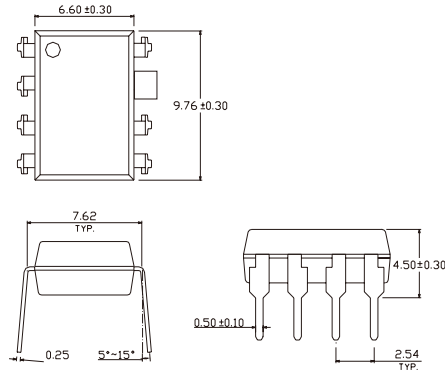
Product	Dimension (mm)	Number of Channels	V _F (V)	V _{DRM} (Max) (V)	V _{TM} (V)	V _{INH} (V)	I _{T rms} (mA)	I _{FT} (mA)	T _{OPR} (°C)	Viso (Vrms)
ELM3042	4.4x4.1x2	400V VDRM Zero-cross	1.5	400	3	20	70	10	-40-100	3750
ELM3043	4.4x4.1x2	400V VDRM Zero-cross	1.5	400	3	20	70	5	-40-100	3750
ELM3044	4.4x4.1x2	400V VDRM Zero-cross	1.5	400	3	20	70	3	-40-100	3750
ELM3062	4.4x4.1x2	600V VDRM Zero-cross	1.5	600	3	20	70	10	-40-100	3750
ELM3063	4.4x4.1x2	600V VDRM Zero-cross	1.5	600	3	20	70	5	-40-100	3750
ELM3064	4.4x4.1x2	600V VDRM Zero-cross	1.5	600	3	20	70	3	-40-100	3750
ELM3082	4.4x4.1x2	800V VDRM Zero-cross	1.5	800	3	20	70	10	-40-100	3750
ELM3083	4.4x4.1x2	800V VDRM Zero-cross	1.5	800	3	20	70	5	-40-100	3750
ELM3084	4.4x4.1x2	800V VDRM Zero-cross	1.5	800	3	20	70	3	-40-100	3750
*ELM3022	4.4x4.1x2	400V VDRM Random Phase	1.5	400	2.5	-	70	10	-40-100	3750
*ELM3023	4.4x4.1x2	400V VDRM Random Phase	1.5	400	2.5	-	70	5	-40-100	3750
*ELM3024	4.4x4.1x2	400V VDRM Random Phase	1.5	400	2.5	-	70	3	-40-100	3750
*ELM3052	4.4x4.1x2	600V VDRM Random Phase	1.5	600	2.5	-	70	10	-40-100	3750
*ELM3053	4.4x4.1x2	600V VDRM Random Phase	1.5	600	2.5	-	70	5	-40-100	3750
*ELM3054	4.4x4.1x2	600V VDRM Random Phase	1.5	600	2.5	-	70	3	-40-100	3750

Star mark * : Please refer to the schematic of Pin configuration with " * " mark

Photo Coupler | Photo Power Triac Driver | 8Pin DIP-DC

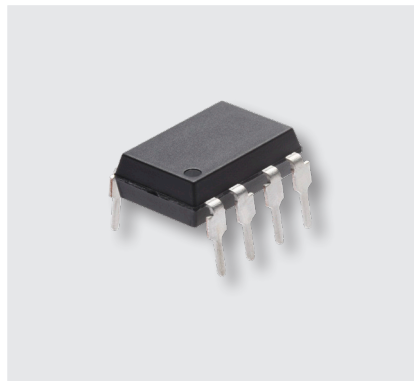


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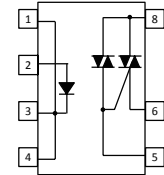
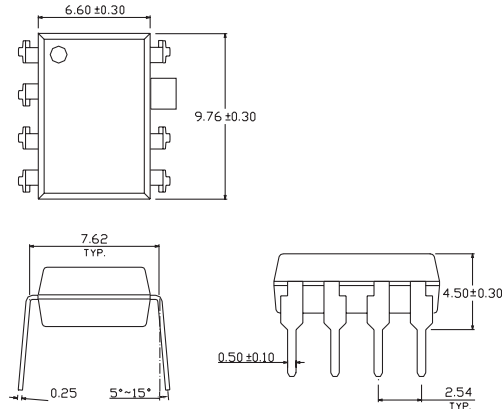


LED Anode 2
LED Cathode 1, 3, 4
Triac Gate 5
Triac T1 6
Triac T2, 8

Product	Dimension (mm)	Number of Channels	V_F (V)	$V_{DRM} (Max)$ (V)	V_{TM} (V)	V_{INH} (V)	I_T rms (mA)	I_{FT} (mA)	T_{OPR} (°C)	Viso (Vrms)
ELR0213	9.76x6.5x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	300	10	-40-85	5000
ELR1213	9.76x6.5x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	600	10	-40-85	5000
ELR2213	9.76x6.5x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	900	10	-40-85	5000
ELR3213	9.76x6.5x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	1200	10	-40-85	5000



UNIT : mm



2. Anode
1, 3, 4. Cathode
5. Triac Gate
6. Triac T1
8. Triac T2

Product	Dimension (mm)	Number of Channels	V_F (V)	$V_{DRM} (Max)$ (V)	V_{TM} (V)	V_{INH} (V)	I_T rms (mA)	I_{FT} (mA)	T_{OPR} (°C)	Viso (Vrms)
ELR0223	9.76x6.5x3.5	600V VDRM Random Phase	1.4	600	2.5	-	300	10	-40-85	5000
ELR1223	9.76x6.5x3.5	600V VDRM Random Phase	1.4	600	2.5	-	600	10	-40-85	5000
ELR2223	9.76x6.5x3.5	600V VDRM Random Phase	1.4	600	2.5	-	900	10	-40-85	5000
ELR3223	9.76x6.5x3.5	600V VDRM Random Phase	1.4	600	2.5	-	1200	10	-40-85	5000

Photo Coupler | Solid State Relay | 4pin SOP

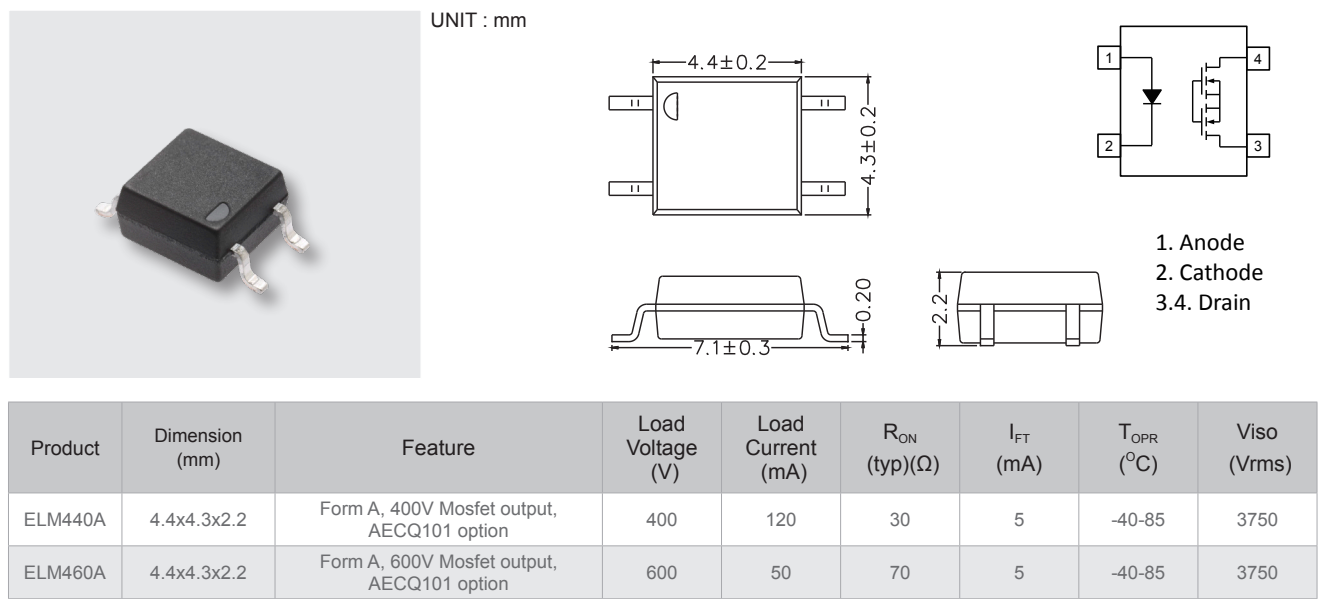


Photo Coupler | Solid State Relay | 8pin SOP-2.54mm

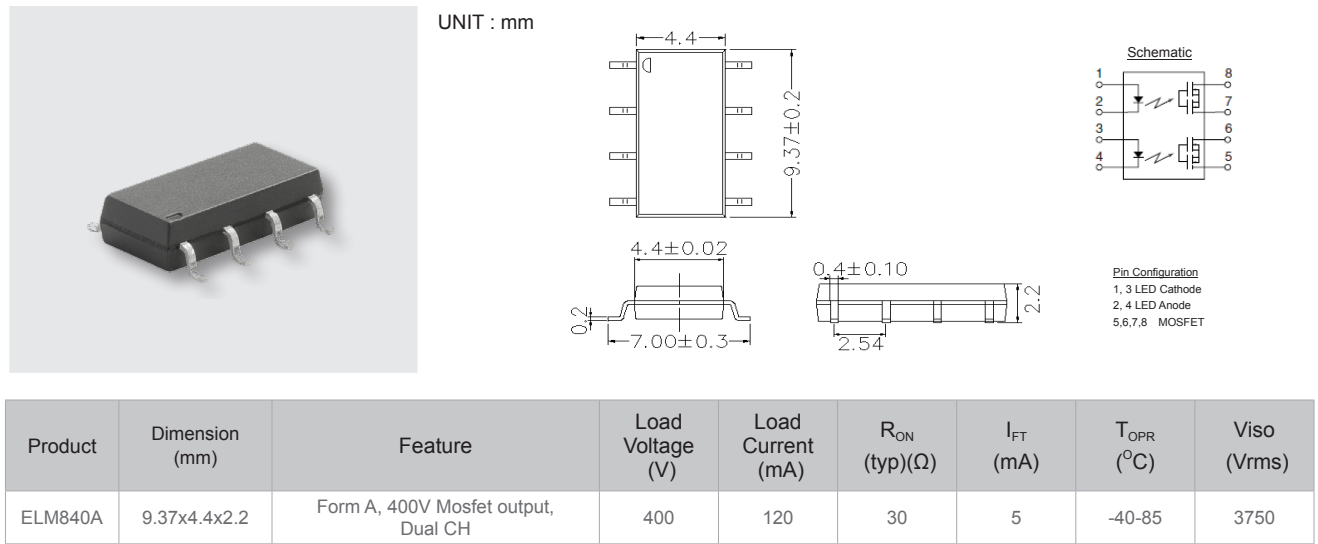
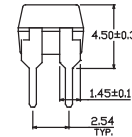
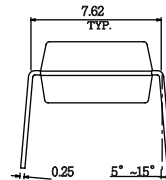
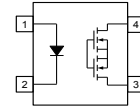
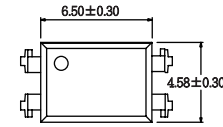


Photo Coupler | Solid State Relay | 4Pin DIP



UNIT : mm



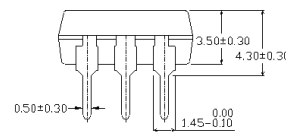
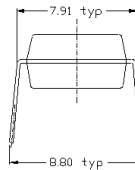
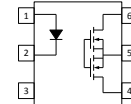
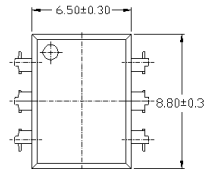
1. Anode
2. Cathode
- 3.4. Drain

Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R _{ON} (typ)(Ω)	I _{FT} (mA)	T _{OPR} (°C)	Viso (Vrms)
EL406A	6.5x4.58x3.5	Form A, 60V Mosfet output	60	550	2.5	5	-40-85	5000
EL425A	6.5x4.58x3.5	Form A, 250V Mosfet output	250	150	28	5	-40-85	5000
EL440A	6.5x4.58x3.5	Form A, 400V Mosfet output, AECQ101 option	400	120	30	5	-40-85	5000
EL460A	6.5x4.58x3.5	Form A, 600V Mosfet output, AECQ101 option	600	50	70	5	-40-85	5000

Photo Coupler | Solid State Relay | 6Pin DIP-DC



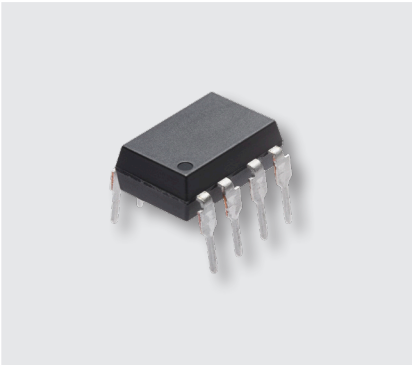
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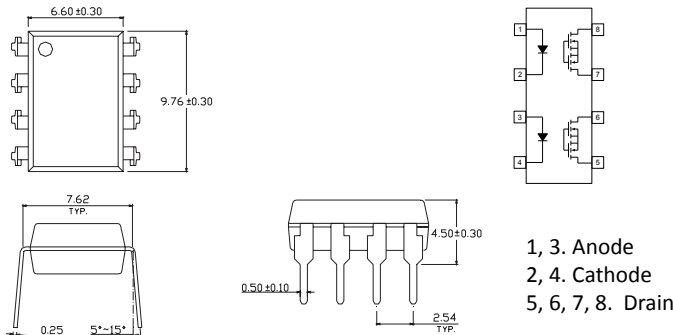
1. Anode
2. Cathode
4. Drain
5. Source
6. Drain

Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R _{ON} (typ)(Ω)	I _{FT} (mA)	T _{OPR} (°C)	Viso (Vrms)
EL606A	8.8x6.5x3.5	Form A, 60V Mosfet output	60	550	2.5	3	-40-85	5000
EL625A	8.8x6.5x3.5	Form A, 250V Mosfet output	250	150	30	3	-40-85	5000
EL640A	8.8x6.5x3.5	Form A, 400V Mosfet output	400	120	30	3	-40-85	5000
EL660A	8.8x6.5x3.5	Form A, 600V Mosfet output	600	50	70	3	-40-85	5000
EL606A3	8.8x6.5x3.5	Form A, 60V Mosfet output, Low RDSON	60	2000	1	5	-40-110	3750
EL603A5	8.8x6.5x3.5	Form A, 30V Mosfet output, Low RDSON	30	5000	1	5	-40-110	3750
EL6150A	8.8x6.5x3.5	Form A, 1500V Mosfet output	1500	20	500	5	-40-110	3750
EV6150A	8.8x6.5x3.5	Form A, 1500V Mosfet output, AECQ101	1500	20	500	5	-40-125	3750

Photo Coupler | Solid State Relay | 8Pin DIP-DC



UNIT : mm

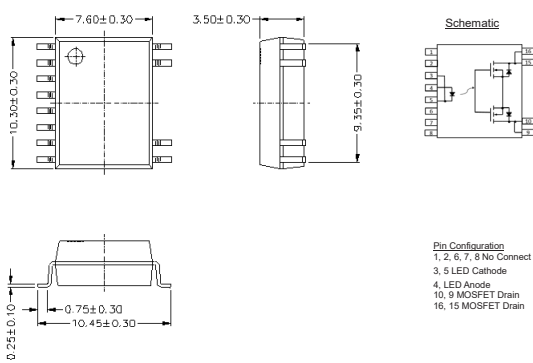


Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R _{ON} (typ)(Ω)	I _{FT} (mA)	T _{OPR} (°C)	Viso (Vrms)
EL840A	9.76x6.6x3.5	Form A, 400V Mosfet output, Dual CH, AECQ101 option	400	120	30	5	-40-85	5000
EL860A	9.76x6.6x3.5	Form A, 600V Mosfet output, Dual CH, AECQ101 option	600	50	70	5	-40-85	5000

Photo Coupler | Solid State Relay | 16Pin DIP

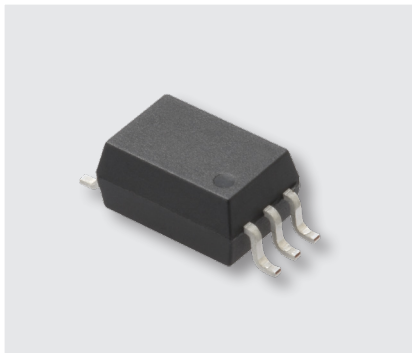


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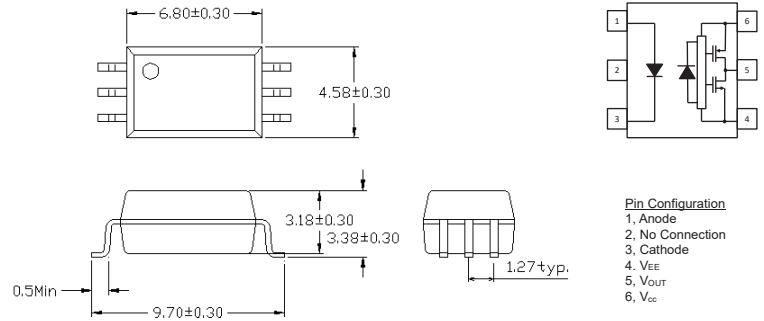


Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R _{ON} (typ)(Ω)	I _{FT} (mA)	T _{OPR} (°C)	Viso (Vrms)
EV16150A	10.3x7.6x3.5	Form A, 1500V Mosfet output, AECQ101	1500	20	500	5	-40-85	5000

Photo Coupler ■ Solid State Relay ■ 6Pin-SDIP-DIP



UNIT : mm

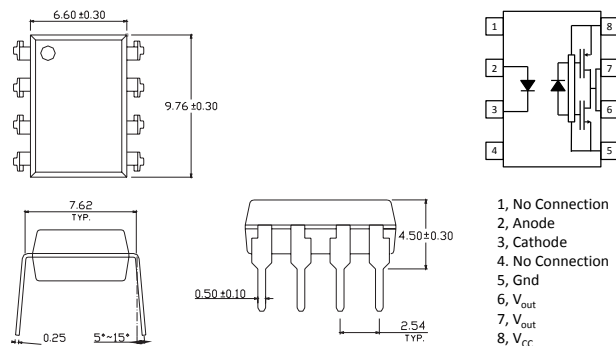


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	tPLH(ns)	tPHL(ns)	CMR(V/μs)	T _{OPR} (°C)	Viso (Vrms)
ELS3120	6.8x4.58x3.18	Rail to Rail Output, 2.5A	15-30	5	300	300	25000	-40-110	5000
ELS3121	6.8x4.58x3.18	Rail to Rail Output, 2.5A	10-30	5	300	300	25000	-40-110	5000
ELS3150	6.8x4.58x3.18	Rail to Rail Output, 1A	15-30	5	400	400	15000	-40-110	5000
ELS3151	6.8x4.58x3.18	Rail to Rail Output, 1A	10-30	5	400	400	15000	-40-110	5000

Photo Coupler ■ IGBT Gate Driver ■ 8Pin DIP-DC

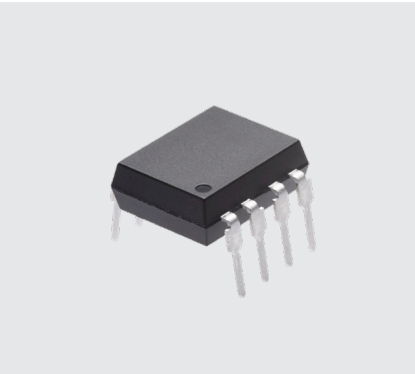


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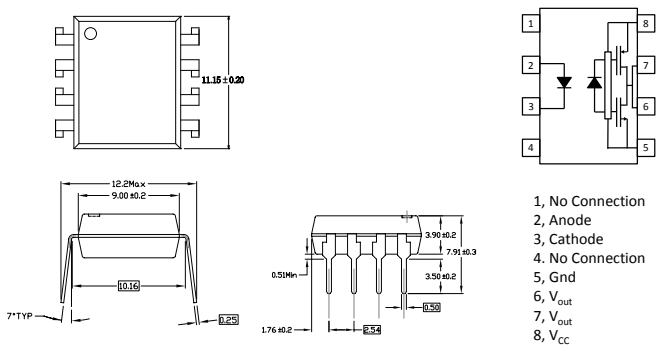


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	tPLH(ns)	tPHL(ns)	CMR(V/μs)	T _{OPR} (°C)	Viso (Vrms)
EL3120	9.76x6.6x3.5	Rail to Rail Output, 2.5A	15-30	5	300	300	25000	-40-110	5000
EL3121	9.76x6.6x3.5	Rail to Rail Output, 2.5A	10-30	5	300	300	25000	-40-110	5000
EL3150	9.76x6.6x3.5	Rail to Rail Output, 1A	15-30	5	300	300	20000	-40-110	5000
EL3151	9.76x6.6x3.5	Rail to Rail Output, 1A	10-30	5	300	300	20000	-40-110	5000

Photo Coupler ■ IGBT Gate Driver ■ 8pin Wide Body DIP-DC



UNIT : mm

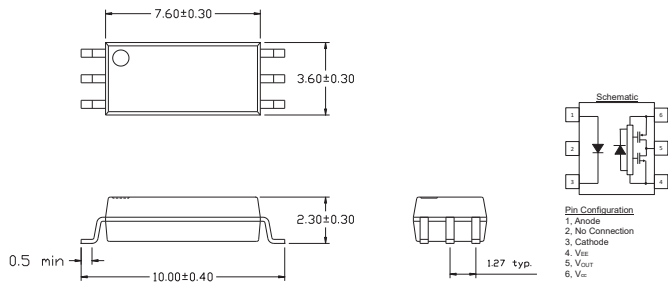


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{FT} (mA)	tPLH (ns)	tPHL (ns)	CMR (V/ μ s)	T _{OPR} (°C)	Viso (Vrms)
ELW3120	11.15x9x3.9	Rail to Rail Output, 2.5A	15-30	5	400	400	20000	-40-100	5000
ELW3121	11.15x9x3.9	Rail to Rail Output, 2.5A	10-30	5	400	400	20000	-40-100	5000
ELW3150	11.15x9x3.9	Rail to Rail Output, 1A	15-30	5	400	400	20000	-40-100	5000
ELW3151	11.15x9x3.9	Rail to Rail Output, 1A	10-30	5	400	400	20000	-40-100	5000

Photo Coupler ■ IGBT Gate Driver ■ 6PIN-LONG CREEPAGE-DC



UNIT : mm

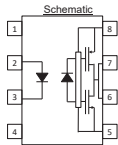
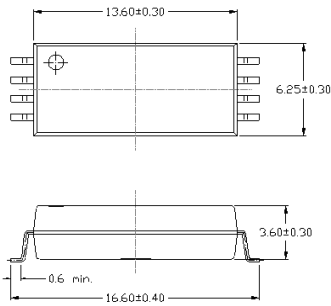


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{FT} (mA)	tPLH (ns)	tPHL (ns)	CMR (V/ μ s)	T _{OPR} (°C)	Viso (Vrms)
EL5770	7.6x3.6x2.3	Rail to Rail Output, 4A	15-30	5	300	300	25000	-40-110	5000
EL5771	7.6x3.6x2.3	Rail to Rail Output, 4A	10-30	5	300	300	25000	-40-110	5000
EL5720	7.6x3.6x2.3	Rail to Rail Output, 2.5A	15-30	5	300	300	25000	-40-110	5000
EL5721	7.6x3.6x2.3	Rail to Rail Output, 2.5A	10-30	5	300	300	25000	-40-110	5000
EL5750	7.6x3.6x2.3	Rail to Rail Output, 1A	15-30	5	400	400	20000	-40-110	5000
EL5751	7.6x3.6x2.3	Rail to Rail Output, 1A	10-30	5	400	400	20000	-40-110	5000

Photo Coupler ■ IGBT Gate Driver ■ 8pin 15mm-LLSOP-DC



UNIT : mm



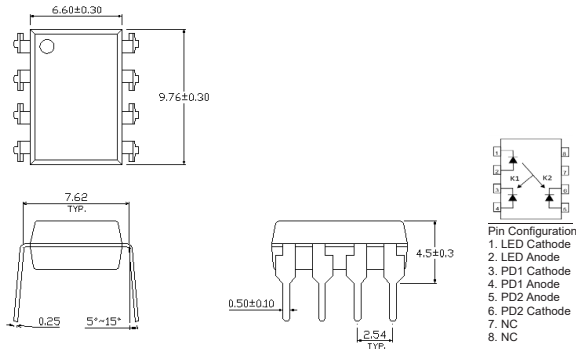
Pin Configuration
1, No Connection
2, Anode
3, Cathode
4, No Connection
5, VEE
6, VOUT
7, VOUT
8, VCC
Note A : 0.1 μ F bypass capacitor must be connected between pins 5 and 8

Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{FT} (mA)	t _{PLH} (ns)	t _{PHL} (ns)	CMR (V/ μ s)	T _{OPR} (°C)	Viso (Vrms)
ELH3170	13.6x6.25x3.6	Rail to Rail Output, 4A, 15mm Creepage, CTI>600	15-30	5	300	300	25000	-40-105	7500

Photo Coupler ■ Linear Coupler ■ Linear 8PIN-DIP



UNIT : mm

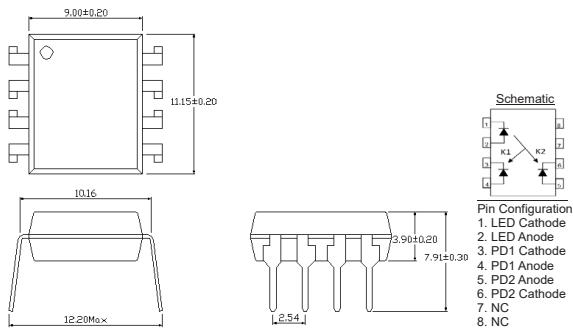


Product	Dimension (mm)	package	Feature	V _{RPD} (V)	Transfer Gain	Gain Error(25°C)	T _{OPR} (°C)	Viso (Vrms)
ELL300	9.76x6.6x3.5	DIP8	Great Linearity, Transfer Gain	30	1	±5%,±10%,±40%	-40-100	5000

Photo Coupler ■ Linear Coupler ■ Linear 8pin Wide Body DIP-DC

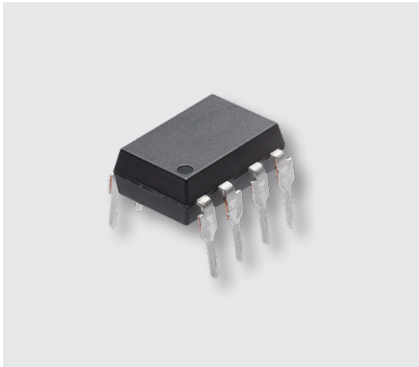


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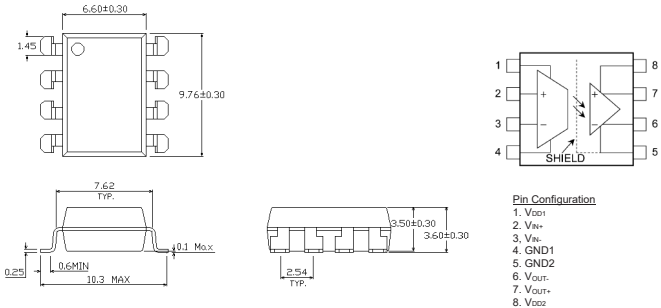


Product	Dimension (mm)	package	Feature	V _{RPD} (V)	Transfer Gain	Gain Error(25°C)	T _{OPR} (°C)	Viso (Vrms)
ELL200	11.15x9x3.9	WDIP8	Great Linearity, Transfer Gain	30	1	±5%,±10%,±40%	-40-100	5000

Photo Coupler | Isoamp | 8PIN-DIP



UNIT : mm

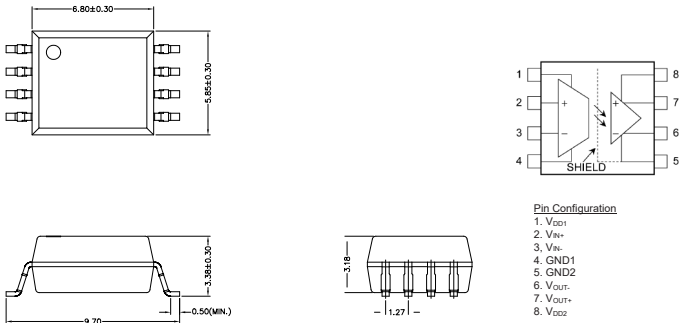


Product	Dimension (mm)	Feature	Supply Voltage (VDD1,VDD2)(V)	Gain	Gain error (25°C)	Input Voltage (mV)	T _{OPR} (°C)	Viso (Vrms)
EL7840	9.76x6.6x3.5	Analog, Low gain error	6	8	±2%	±200	-40-105	5000

Photo Coupler | Isoamp | 8pin SDIP



UNIT : mm



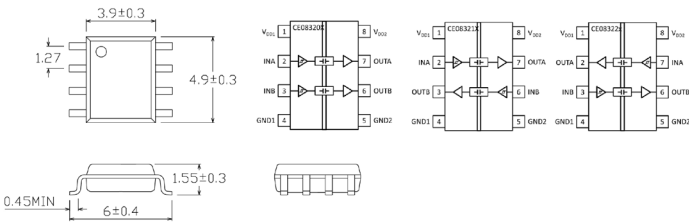
Product	Dimension (mm)	Feature	Supply Voltage (VDD1,VDD2)(V)	Gain	Gain error (25°C)	Input Voltage (mV)	T _{OPR} (°C)	Viso (Vrms)
ELK7840	6.8x5.85x3.18	Analog, Low gain error	6	8	±2%	±200	-40-105	5000

Photo Coupler

Digital Isolation | High speed Digital isolator | SO8



UNIT : mm

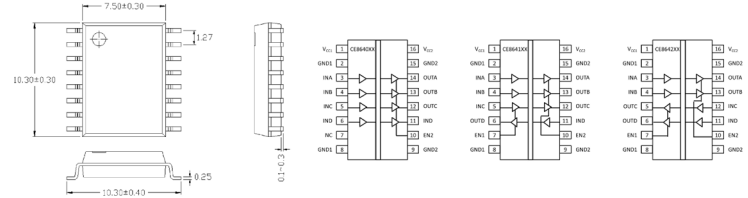


Product	Dimension (mm)	channel	speed type	output voltage state	CMTI	Temperature Range
CE08320ML(TA)-G	4.9x3.9x1.55	2	10Mbps	Low	75kv/us	-40 to 125°C
CE08320MH(TA)-G	4.9x3.9x1.55	2	10Mbps	High	75kv/us	-40 to 125°C
CE08321MH(TA)-G	4.9x3.9x1.55	2	10Mbps	High	75kv/us	-40 to 125°C
CE08322ML(TA)-G	4.9x3.9x1.55	2	10Mbps	Low	75kv/us	-40 to 125°C
CE08322MH(TA)-G	4.9x3.9x1.55	2	10Mbps	High	75kv/us	-40 to 125°C
CE08320EL(TA)-G	4.9x3.9x1.55	2	200Mbps	Low	75kv/us	-40 to 125°C
CE08320EH(TA)-G	4.9x3.9x1.55	2	200Mbps	High	75kv/us	-40 to 125°C
CE08321EH(TA)-G	4.9x3.9x1.55	2	200Mbps	High	75kv/us	-40 to 125°C
CE08322EL(TA)-G	4.9x3.9x1.55	2	200Mbps	Low	75kv/us	-40 to 125°C
CE08322EH(TA)-G	4.9x3.9x1.55	2	200Mbps	High	75kv/us	-40 to 125°C

Digital Isolation ■ High speed Digital isolator ■ 16pin LSOP



UNIT : mm

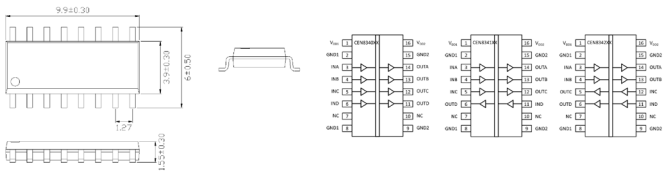


Product	Dimension (mm)	channel	speed type	output voltage state	CMTI	Temperature Range
CE8322ML(TA)-G	10.3x7.9x 2.5	2	10Mbps	Low	120kv/us	-40 to 125°C
CE8322MH(TA)-G	10.3x7.9x 2.5	2	10Mbps	High	120kv/us	-40 to 125°C
CE8322EL(TA)-G	10.3x7.9x 2.5	2	200Mbps	Low	120kv/us	-40 to 125°C
CE8322EH(TA)-G	10.3x7.9x 2.5	2	200Mbps	High	120kv/us	-40 to 125°C
CE8640ML(TA)-G	10.3x7.9x 2.5	4	10Mbps	Low	120kv/us	-40 to 125°C
CE8641MH(TA)-G	10.3x7.9x 2.5	4	10Mbps	High	120kv/us	-40 to 125°C
CE8642ML(TA)-G	10.3x7.9x 2.5	4	10Mbps	Low	120kv/us	-40 to 125°C
CE8642MH(TA)-G	10.3x7.9x 2.5	4	10Mbps	High	120kv/us	-40 to 125°C
CE8640EL(TA)-G	10.3x7.9x 2.5	4	200Mbps	Low	120kv/us	-40 to 125°C
CE8641EH(TA)-G	10.3x7.9x 2.5	4	200Mbps	High	120kv/us	-40 to 125°C
CE8642EL(TA)-G	10.3x7.9x 2.5	4	200Mbps	Low	120kv/us	-40 to 125°C
CE8642EH(TA)-G	10.3x7.9x 2.5	4	200Mbps	High	120kv/us	-40 to 125°C

Digital Isolation ■ High speed Digital isolator ■ 16pin SOPN

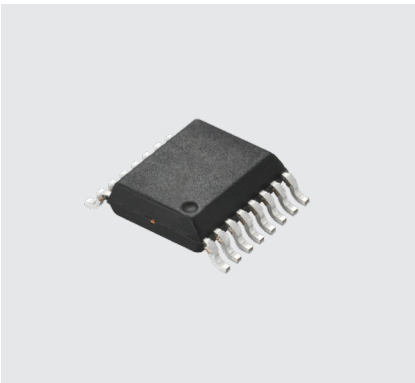


UNIT : mm

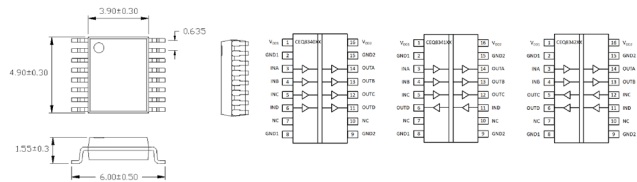


Product	Dimension (mm)	channel	speed type	output voltage state	CMTI	Temperature Range
CEN8340ML(TA)-G	9.9x3.9x1.55	4	10Mbps	Low	75kv/us	-40 to 125°C
CEN8342ML(TA)-G	9.9x3.9x1.55	4	10Mbps	Low	75kv/us	-40 to 125°C
CEN8340EL(TA)-G	9.9x3.9x1.55	4	200Mbps	Low	75kv/us	-40 to 125°C
CEN8342EL(TA)-G	9.9x3.9x1.55	4	200Mbps	Low	75kv/us	-40 to 125°C

Digital Isolation ■ High speed Digital isolator ■ 16pin QSOP



UNIT : mm

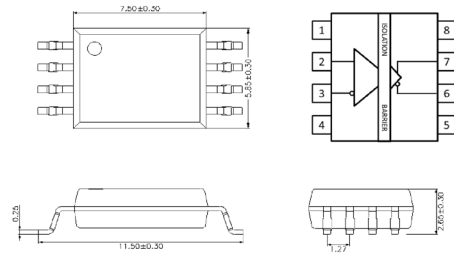


Product	Dimension (mm)	channel	speed type	output voltage state	CMTI	Temperature Range
CEQ8340ML(TA)-G	4.9x3.9x1.55	4	10Mbps	Low	75kv/us	-40 to 125°C
CEQ8341ML(TA)-G	4.9x3.9x1.55	4	10Mbps	Low	75kv/us	-40 to 125°C
CEQ8342ML(TA)-G	4.9x3.9x1.55	4	10Mbps	Low	75kv/us	-40 to 125°C
CEQ8340EL(TA)-G	4.9x3.9x1.55	4	200Mbps	Low	75kv/us	-40 to 125°C
CEQ8341EL(TA)-G	4.9x3.9x1.55	4	200Mbps	Low	75kv/us	-40 to 125°C
CEQ8342EL(TA)-G	4.9x3.9x1.55	4	200Mbps	Low	75kv/us	-40 to 125°C

Digital Isolation ■ Isolation Amplifier ■ 8pin SDIP



UNIT : mm

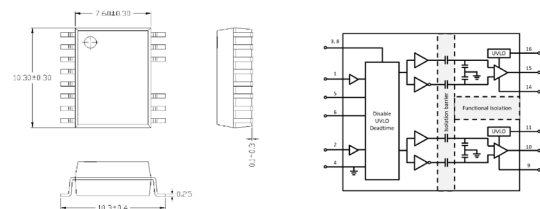


Product	Dimension (mm)	Fixed Gain	Low nonlinearity and drift	gain error (max)	CMTI	Temperature Range
CEK79	7.5x5.85x 2.65	8.2	0.03%, ±1ppm/°C (typical)	±0.3%, ±30ppm/°C	150 kV/us	-40 to 125°C
CEK87	7.5x5.85x 2.65	1	0.04%, ±1ppm/°C (typical)	±0.3%, ±30ppm/°C	150 kV/us	-40 to 125°C

Digital Isolation ■ Gate Driver ■ 16pin SDIP



UNIT : mm



Product	Dimension (mm)	source current	sink current	UVLO Rising threshold	CMTI	Temperature Range
CE21550A	10.3x7.9x 2.5	4A	8A	6.5V	100KV/us	-40 to 125°C
CE21550B	10.3x7.9x 2.5	4A	8A	9.2V	100KV/us	-40 to 125°C

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ASIA**CHINA****CHINA, HONG KONG**

EVERLIGHT ELECTRONICS CO., LTD.

Units 305, 3/F., Prosperity Place,
6 Shing Yip Street, Kwun Tong, Kowloon,
Hong Kong

TEL: +852-2388-0602

FAX: +852-2388-1127

CHINA, SHENZHEN

EVERLIGHT ELECTRONICS CO., LTD.

Room 1101-1102, 3A Building, Period 1,
Tian An Cloud Park, NO.2018, Xuegang Rd.,
Bantian Sub-District, LongGang District,
Shenzhen City, Guangdong Province, China
Postcode: 518010

TEL: +86-0755-2163-8620

FAX: +86-0755-2163-8764

CHINA, GUANGZHOU

EVERLIGHT ELECTRONICS CO., LTD.

508 Room, Jiaotou Building, 131 Dongxing Road,
Panyu District, Guangzhou city, Guangdong, China
Postcode: 511400

TEL: +86-(0)20-8466-3392

FAX: +86-(0)20-8466-3372

CHINA, SUZHOU

EVERLIGHT ELECTRONICS CO., LTD.

5F, Wanrong International Building,
NO. 3158, Renmin Rd., Gusu Dist., Suzhou City,
Jiangsu Province, P.R. China
Postcode: 215011

TEL: +86-(0)512-8860-5888

CHINA, TIANJIN

EVERLIGHT ELECTRONICS CO., LTD

ROOM 505, Zhongguancun E-Valley Creative
World, No 37, NanKai Three Road, NanKai District,
TianJin, China, 300100

Postcode: 300100

TEL: +86-22-2635-1122

KOREA

EVERLIGHT OPTOELECTRONICS

KOREA CO., LTD.

7F S706-1 Garden 5 Works Choongmin Rd52.,
Songpa-gu, Seoul, KOREA.

TEL: +82-2-2047-3960

FAX: +82-2-2047-3961

EMAIL: terrychoi@everlightkorea.com

JAPAN, TOKYO

EVERLIGHT JAPAN CORPORATION

4F, FTK Building, 11-22 Higashidacho,
Kawasaki-ku, Kawasaki-shi,
Kanagawa 210-0005, Japan

TEL: +81-44-280-7385

FAX: +81-44-280-7395

EMAIL: elj@everlight.com

JAPAN, KYOTO

EVERLIGHT JAPAN CORPORATION

7F, KYOTO YAMASHINA BLDG.

46-1, TAKEHANADONOMAECCHOU,
YAMASHINA KU, KYOTO, 607-8085, JAPAN

TEL: +81-75-584-6070

FAX: +81-75-584-6080

EMAIL: elj@everlight.com

INDIA, NEW DELHI

EVERLIGHT ELECTRONICS INDIA PRIVATE LTD.

No. 606, 6th Floor, Surya Kiran Building,
Connaught Place, KG Marg, Delhi 110001
Mobile: +91-914-8657774

EMAIL: salesindia@everlight.com

MALAYSIA

EVERLIGHT OPTOELECTRONICS(M) SDN BHD

B-04-20 Krystal Point,
303 Jalan Sultan Azlan Shah,
11900 Penang, Malaysia

TEL: +60-4-646-4233

EMAIL: inquiry@everlight.com.my

SINGAPORE

EVERLIGHT ELECTRONICS SINGAPORE PTE LTD

5 Tampines Central 6, #03-38 Telepark Building,
Singapore 529482

TEL: +65-6747-7937

EMAIL: asean@everlight.com.my

AMERICA**TEXAS USA**

EVERLIGHT AMERICAS INC.

3220 Commander Drive, Suite 100
Carrollton, Texas, 75006, United States
TEL: +1-972-490-4008

FAX: +1-972-490-5009

EMAIL: salesmarketing@everlightamericas.com

ONTARIO USA

EVERLIGHT AMERICAS INC.

8599 Haven Avenue, Suite 205, Rancho
Cucamonga, California 91730, United States
TEL: +1-909-308-4770

FAX: +1-909-308-4780

EMAIL: salesmarketing@everlightamericas.com

SAN JOSE USA

EVERLIGHT AMERICAS INC.

960 Saratoga Ave., Suite 112,
San Jose, California, 95129, United States
TEL: +1-408-816-7548

FAX: +1-408-816-7569

EMAIL: salesmarketing@everlightamericas.com

MICHIGAN USA

EVERLIGHT AMERICAS INC.

34405 W 12 Mile Rd, Suite 218
Farmington Hills, Michigan 48331
TEL: +1-734-224-9880

FAX: +1-734-224-9922

EMAIL: salesmarketing@everlightamericas.com

EUROPE**GERMANY, KARLSRUHE**

EVERLIGHT ELECTRONICS EUROPE GMBH

Siemensallee 84, Building 7302, 5F
76187 Karlsruhe, Germany
TEL: +49-721-82447-3

FAX: +49-721-82447-40

EMAIL: info@everlight-eu.de

全国免费电话：400-6258-289

HEADQUARTERS

No. 6-8, Zhonghua Rd., Shulin Dist., New Taipei City, Taiwan 23860

TEL: +886-2-2685-6688 FAX: +886-2-2685-6699

www.everlight.com