

21C Leader in Photonics Industry

www.lumicom.co.kr

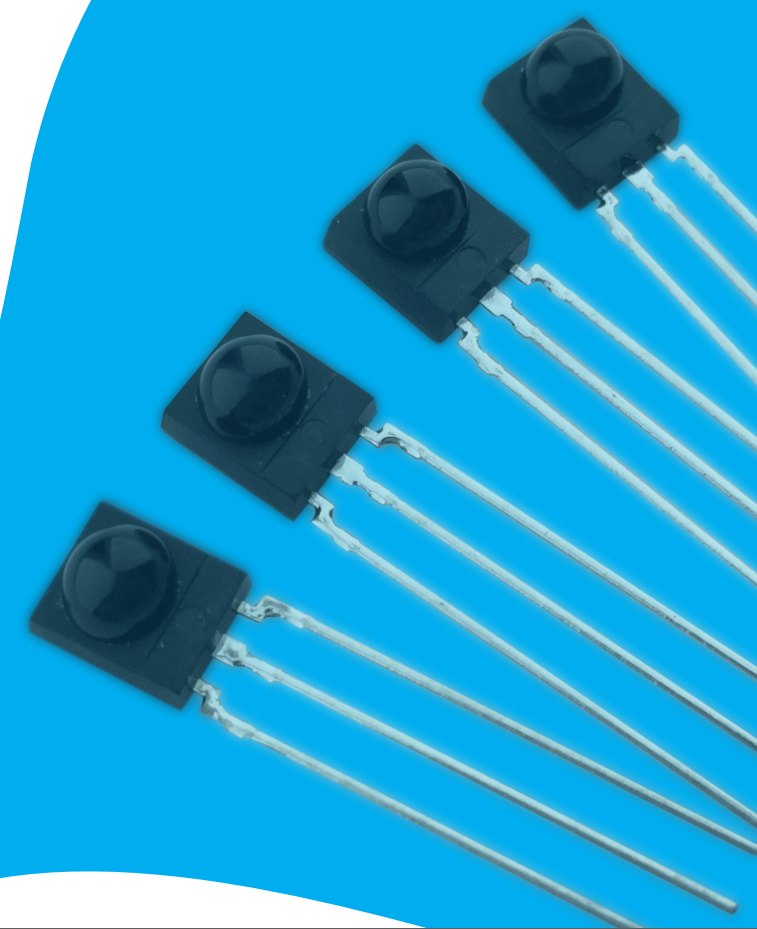
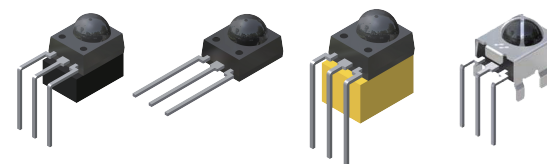
- Opto Sensors
- IR Receiver Module
- High power LED
- Fiber Optic Modules
- Lens
- LED Lighting



21C Leader in

Photonics Industry

Create better future for all righteous and happy members
by making profit through best service to each customer.



Luminous & Communication

46, Sangri 1-gil, Jeonju-si, Jeollabuk-do Korea.

+82-63-211-3223 +82-63-211-3224

The motto of our company, Lumicom Inc. is "Create the better future to make our profit with the best service for the customers by good and happy people". Under this motto, we all actively work with our own technology and its constant development. We mostly product and sell IR Receiver Modules, semiconductor devices and LED products.

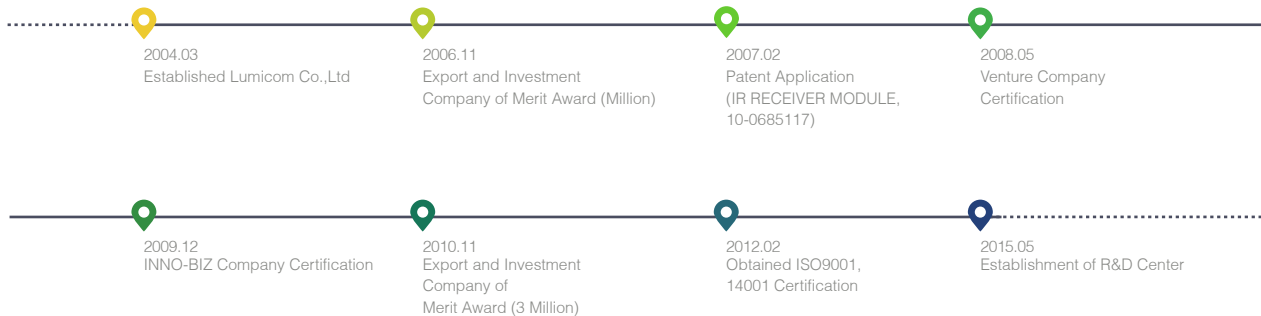
We move forward for the healthcare business for the better future. We're focusing on R&D to be the leading healthcare company to develop oxygen saturation sensors, UV sensors, non-blood gathering sensors, sleep perception sensors and etc on IOT business.

Thank you for your interests.

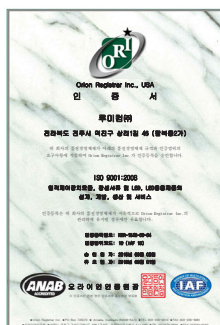
CEO Bok-su Lee



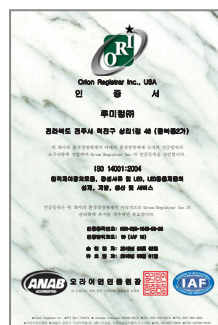
History



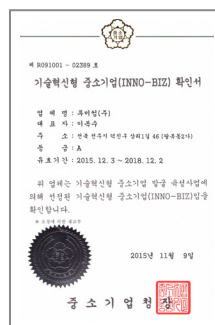
Certificate



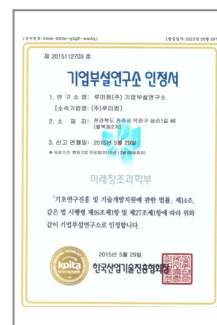
ISO 9001



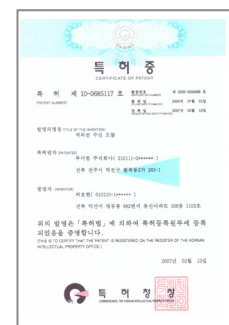
ISO 14001



INNO-BIZ



R&D Center



Certificate of patent

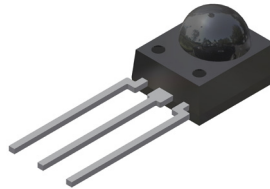
Description

The feature of the Inner shield case is strong against the effect of EMI Noise and disturbance light.

The Noise component of electromagnetic waves from the Backlight Driver(Inverter) and etc. of the TV Set penetrates the Package, and it gives affect to the inner IC which causes the decrease of receiving distance, output of Noise Pulse and etc.

Our IR Receiver Module has the patent for Inner shield case to block exact noise. When comparing to those of other companies, we're leading the market with our superior performance and excellent quality.

LUMICOM

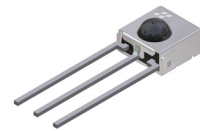


- It doesn't need the Solder process due to inner case. (non-hazardous materials)
- Better production capacity because of no extra assembly process.

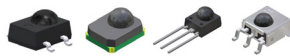
The Internal structure



OTHERS



Application



Robot Cleaner



LR-S25X
LR-S25CT

Lighting



LR-T15ELM
LR-T15CLM

Slim TV



LR-MD4C

SET-TOP BOX



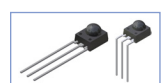
LR-T15CLM
LR-T15CTM2
LR-15CTM4
LR-T15CLN-C

Physical treatment equipment



LR-T15CTM1
LR-T15CTM4

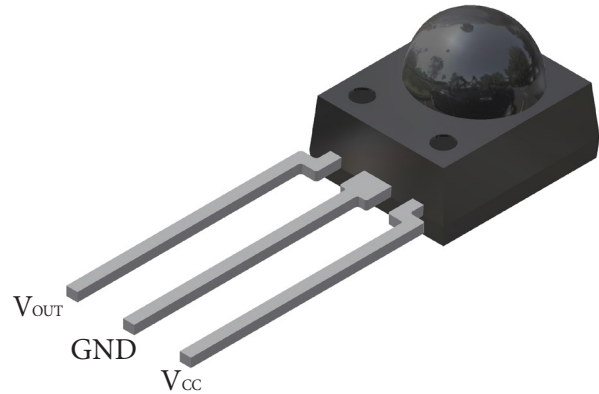
Air Conditioner



LR-15CLM
LR-T15CTM2

Description

The LR-T... series are infrared remote control receiver modules. They are transfer-molded, small size, light weight and low current consumption modules. The strong points of Lumicom IR modules are reliable operation even under disturbing ambient light source, and the protection against uncontrolled output pulses.



Application

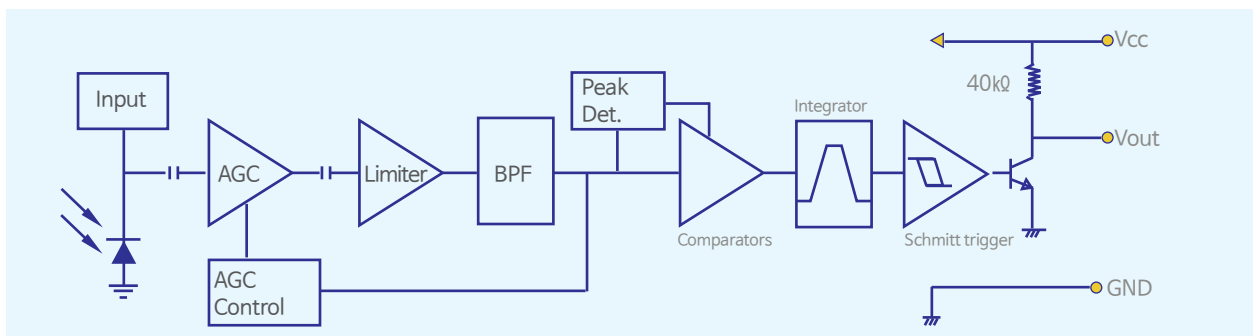
AV equipment (TV, DVD Player, Audio, CD player, STB, etc)
Home appliances (Computer, Air conditioner, Camera, etc)
Infrared remote control Toys.

Features

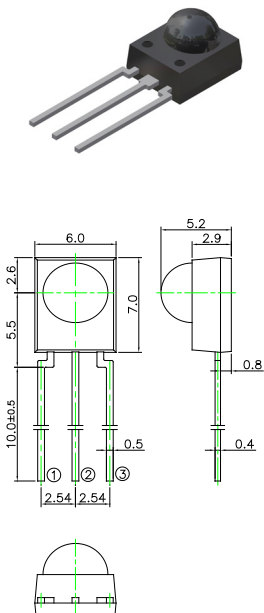
- Wide operating supply voltage between 2.4V to 6.5V
- Photo detector and preamplifier in one package
- Internal filter for PCM frequency
- Enhanced immunity against many different kinds of disturbance light sources.
- Low power consumption
- Output active low
- Operation with short burst possible
- Operation with data Rate (continuous data) possible

TYPE	PIN CONFIGURATION
LR-001000	Vout - Vcc - GND
LR-002000	Vcc - Vout - GND
LR-003000	GND - Vcc - Vout
LR-004000	GND - Vout - Vcc
LR-005000	Vout - GND - Vcc
LR-006000	Vcc - GND - Vout

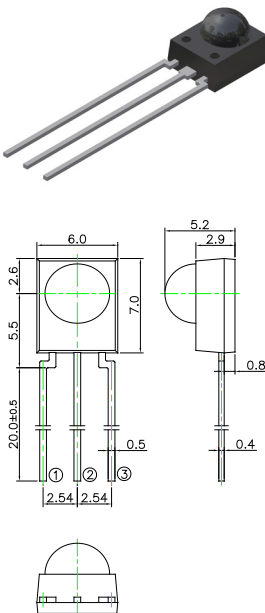
TYPE	CARRIER FREQUENCY
LR-000A00	32.7 kHz
LR-000B00	36.7 kHz
LR-000C00	37.9 kHz
LR-000D00	40.0 kHz
LR-000E00	56.7 kHz



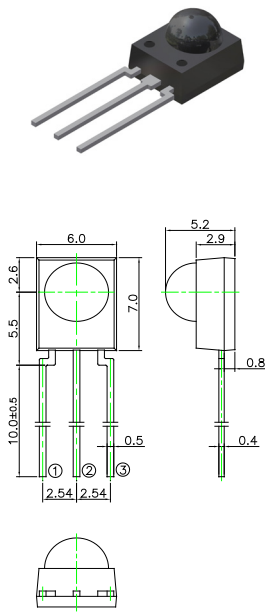
LR-T...SN



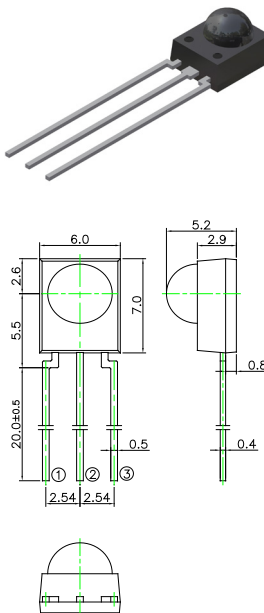
LR-T...N



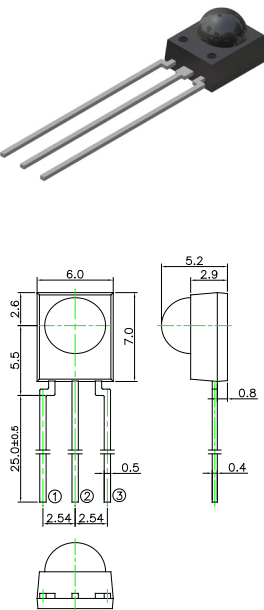
LR-T...SM



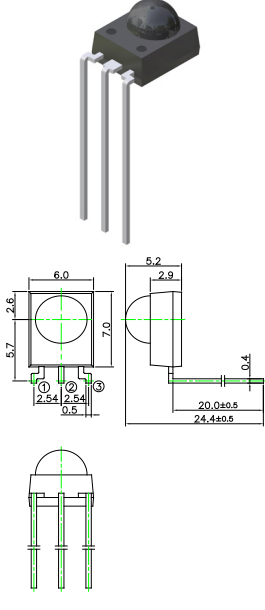
LR-T...M



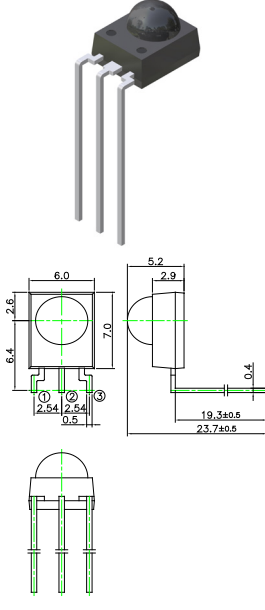
LR-T...LM



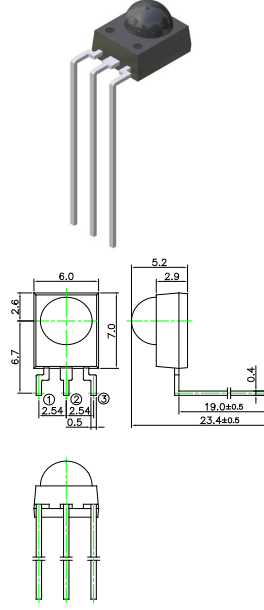
LR-T...TM1



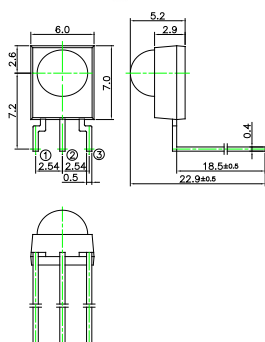
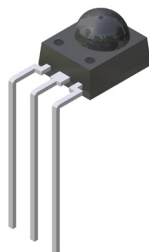
LR-T...TM2



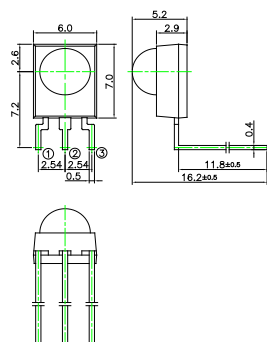
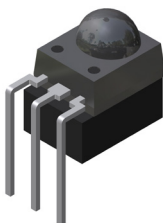
LR-T...TM3



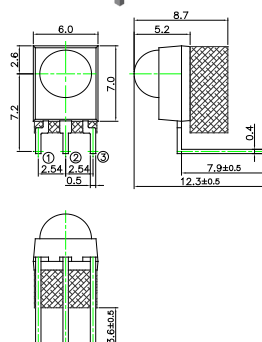
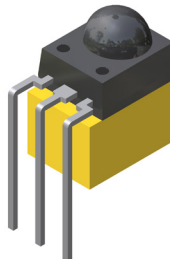
LR-T...TM4



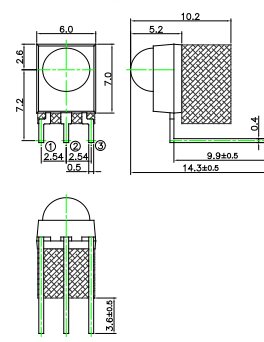
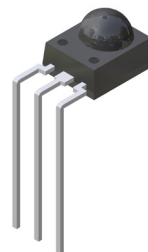
LR-T...TM4-S



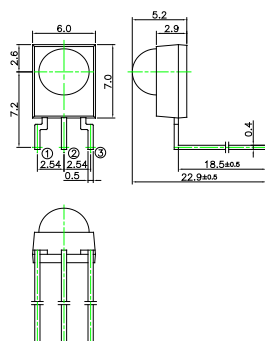
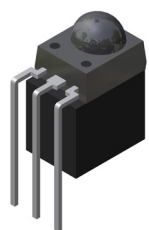
LR-T...TM4AE



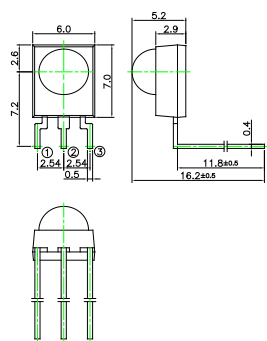
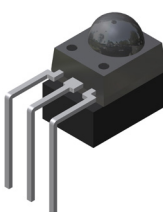
LR-T...TM4BE



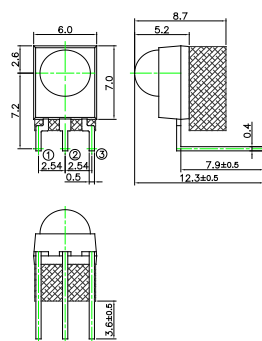
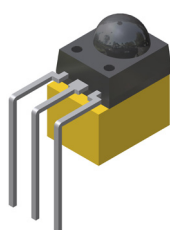
LR-T...TM4CE



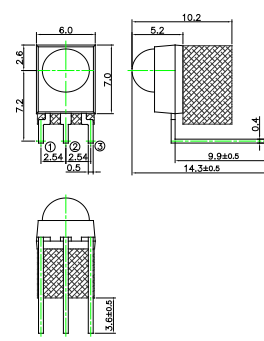
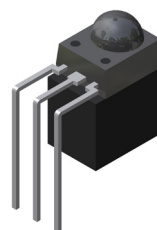
LR-T...TM6AE



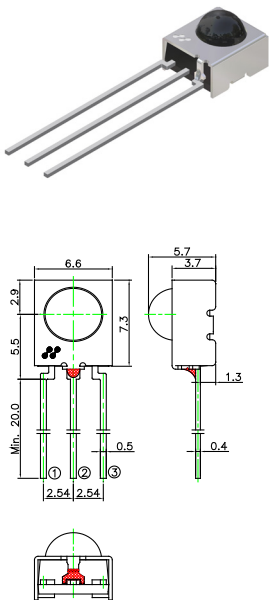
LR-T...TM6BE



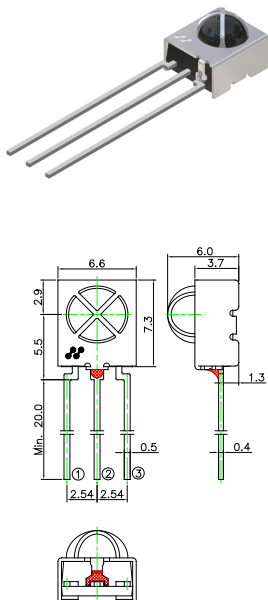
LR-T...TM6CE



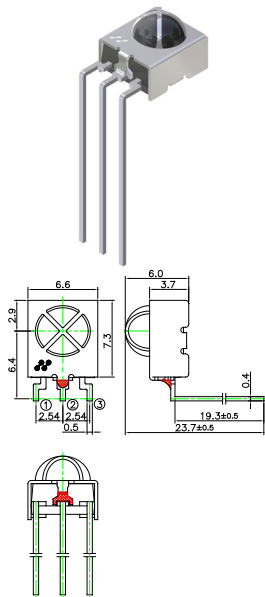
LR-T...N-A



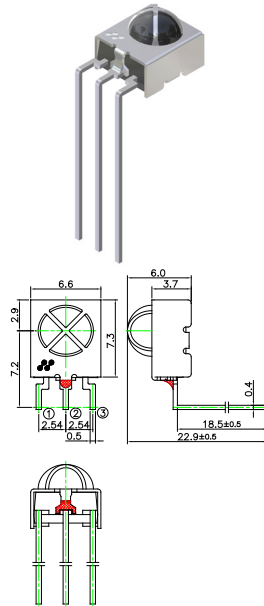
LR-T...N-C



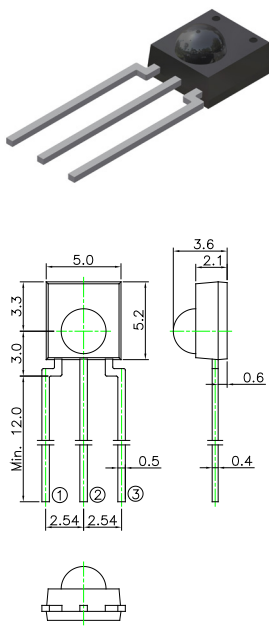
LR-T...TN2-C



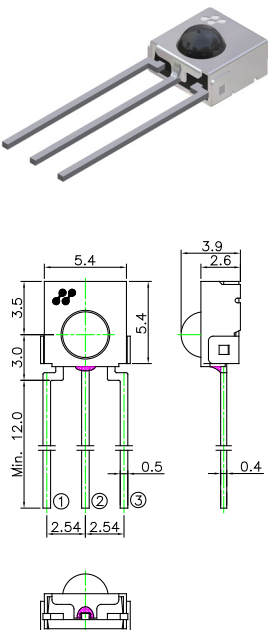
LR-T...TN4-C



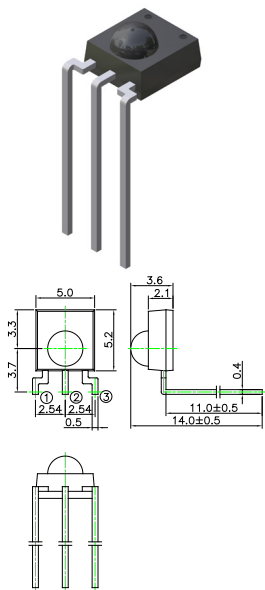
LR-S...SN



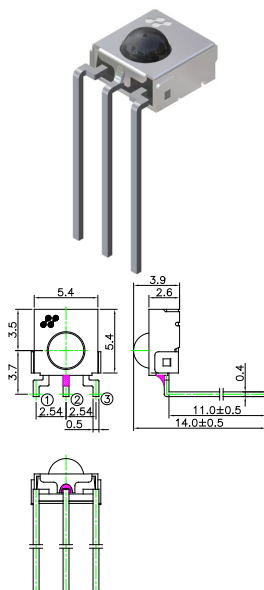
LR-S...



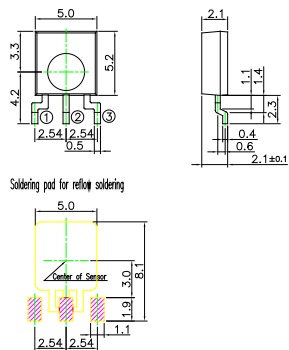
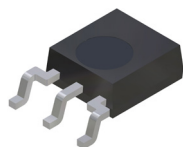
LR-S...TN



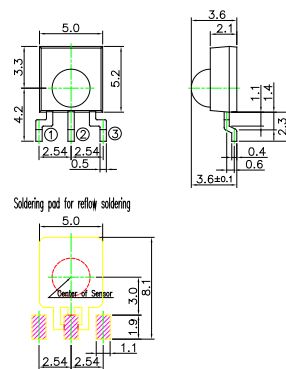
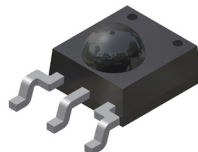
LR-T...S...T



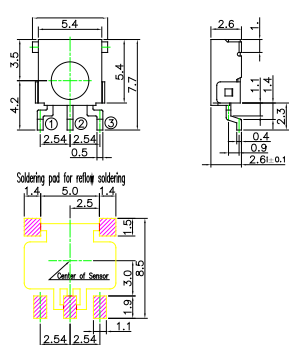
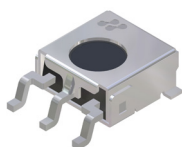
LR-M...FN



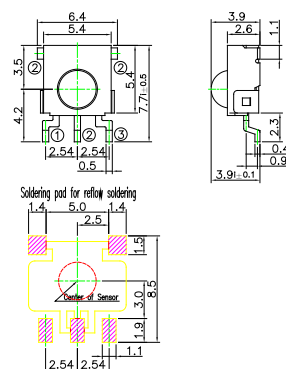
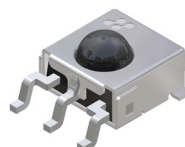
LR-M...N



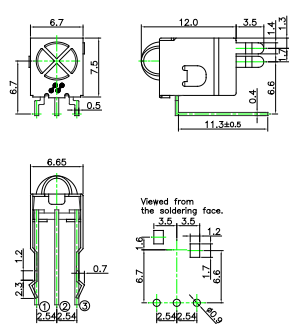
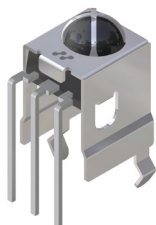
LR-M...F



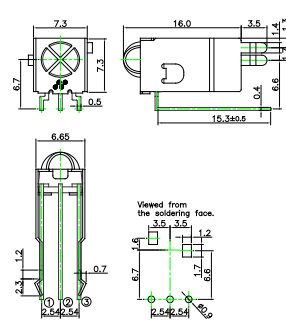
LR-M...



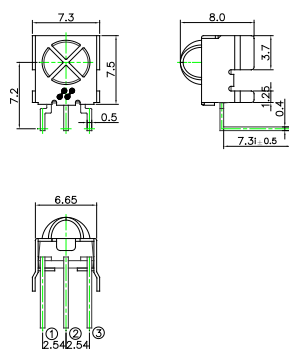
LR-T...TN3C-S



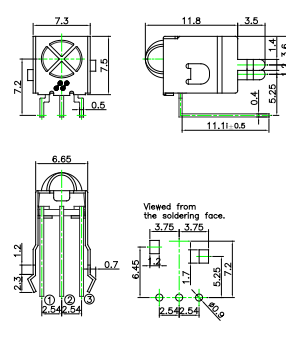
LR-T...TN3D-S



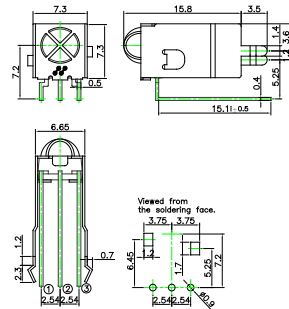
LR-T...TN4A-S



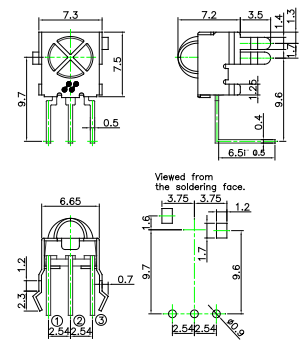
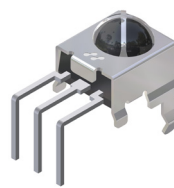
LR-T...TN4C-S



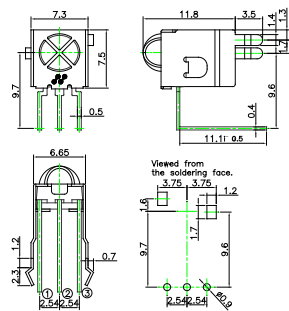
LR-T...TN4D-S



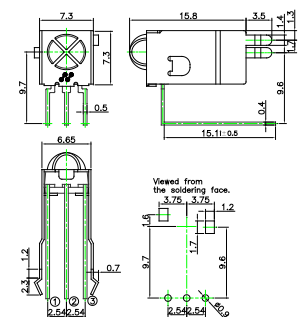
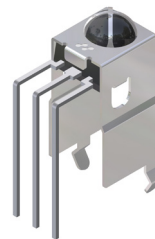
LR-T...TN6A-S



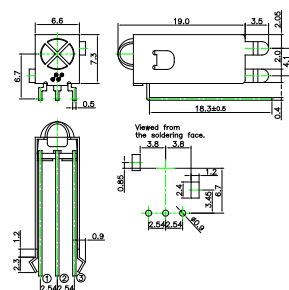
LR-T...TN6C-S



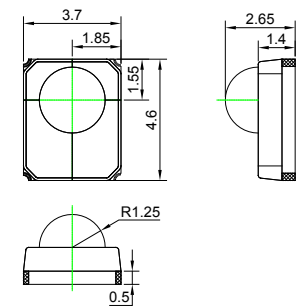
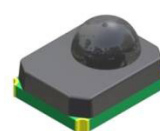
LR-T...TN6D-S



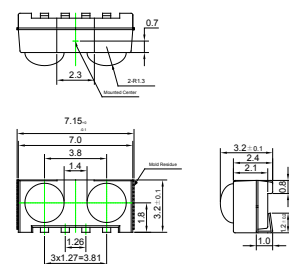
LR-T...TN3E-S



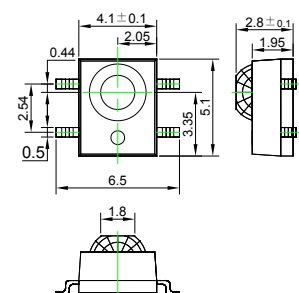
LR-M56CRN-R



LR-MD4C



LR-MH4...HM-R



History

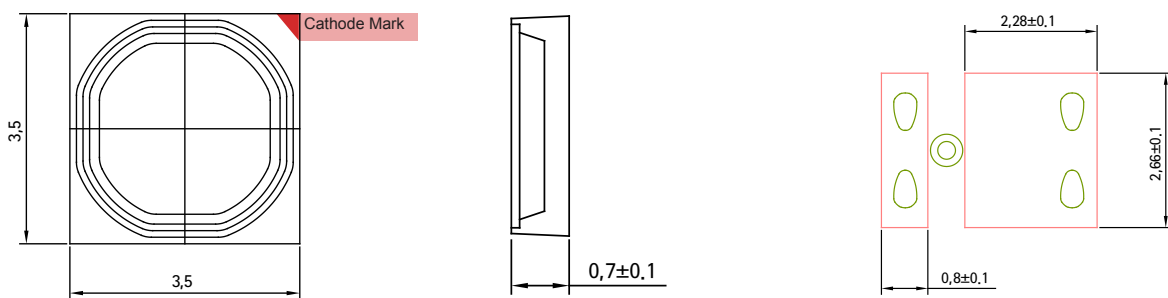
Wide range of UV LED

- UV-A (375nm)
- UV-B (310nm)
- UV-C (275nm)

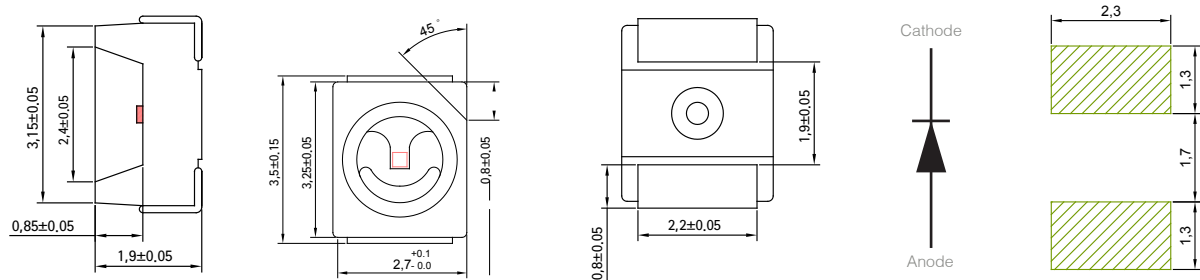
Wide used in medical applications, photolysis media reaction, UV air cleaners, high-resolution, UV glue curing, special lighting

Package	Reverse Voltage(V _r)	Forward Current(I _f)	Wavelength(λ)	Forward Voltage(V _f)	Operating Temperature(T _{op})	Size(mm)	Viewing Angle(deg)
SMD 3528	5V	20mA	375~380nm		-30°C ~ 85°C	3.5×3.5 1.2t	100 °
COB 2218	5V	20mA	370~375nm	3.4V~3.8V	-30°C ~ 85°C	2.4×1.8 1.0t	120 °
SMD 3535	5V	20mA	365~370nm		-30°C ~ 85°C	3.5×2.8 1.9t	120 °

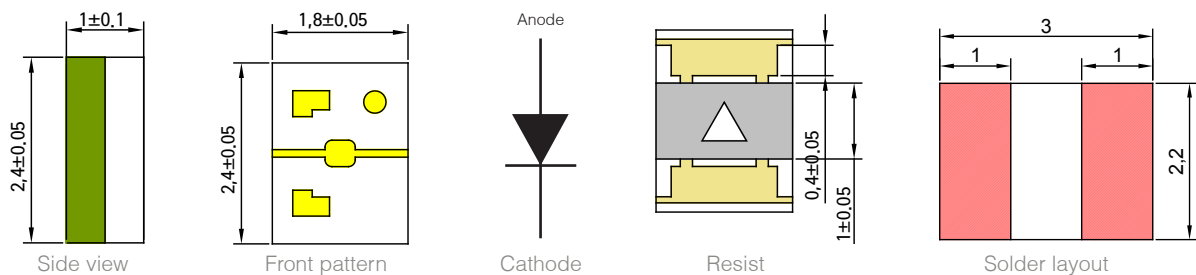
SMD 3535



SMD 3528



COB 2418



SpO2 Sensor

Description

It has two basic LED's with a photo-diode to detect the intensity of light radiation. The sources of light are red(RED, 660nm) and infrared rays (IR, 940nm). The two LED's emit two separate kinds of light which are on parallel connections so if one has normal direction flow then the other will have a reverse current. The voltage of the reverse current is 5V at this time and the maximum current of the normal flow is 40mA.

Application



SpO2 DUAL EMITTER

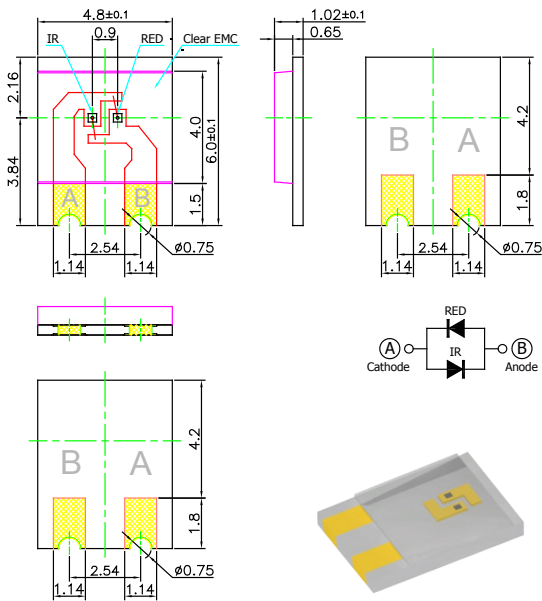
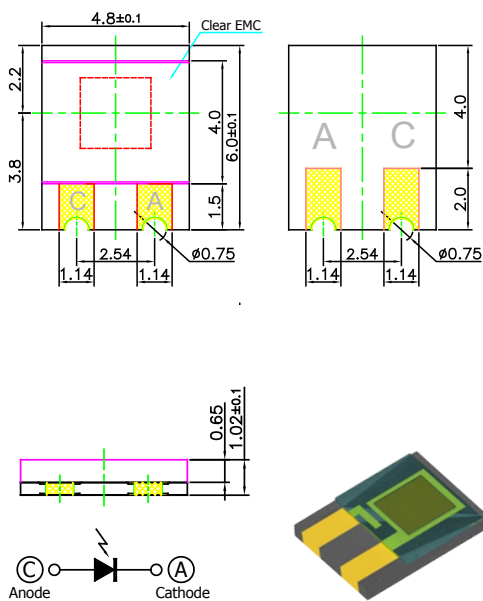


PHOTO DIODE



Forward Voltage		Reverse current		Radiant Power		Peak wavelength sensitivity	
VF[V]		IR[μA]		PO[mW]		λp[nm]	
RED	IR	RED	IR	RED	IR	RED	IR
1.8	1.3	10	10	3.0	1.5	660	905

Open circuit Voltage *1	Dark current		Spectral sensitivity	Peak wavelength
VOC[V]	ID[nA]	@VR[V]		λp[nm]
Typ.	Typ.			Typ.
0.32	1	10		940
				450-1100