

Lead (Pb) Free Product – RoHS Compliant

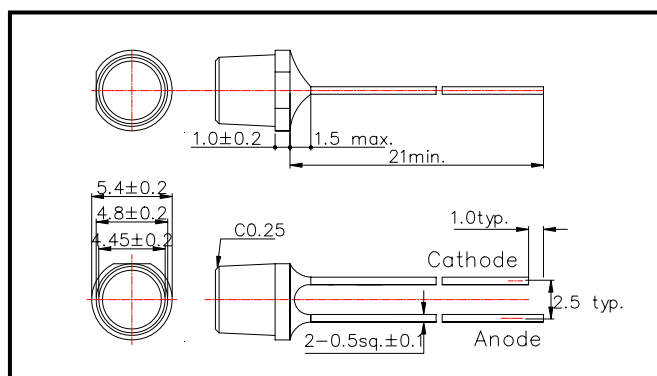
L470-05 Super Bright Blue LED

L470-05 is an InGaN LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light, which peaks 470nm.

◆ Specifications

- 1) Product Name Blue LED Lamp
- 2) Type No. L470-05
- 3) Chip
- (1) Chip Material InGaN
- (2) Peak Wavelength 470nm typ.
- 4) Package
- (1) Type Φ5mm clear molding
- (2) Resin Material Epoxy Resin
- (3) Lead Frame Soldered (Lead Free)

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	200	mW	T _a =25°C
Forward Current	I _F	50	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Junction Temperature	T _J	100	°C	
Thermal Resistance	R _{thjp}	370	K/W	
Operating Temperature	T _{OPR}	-30 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	265	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

‡Thermal resistance: junction – ambient, leads 7mm, soldered on PCB

◆ Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.3	4.0	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		8.0		mW
Brightness	I _v	I _F =20mA		360		mcd
Peak Wavelength	λ _P	I _F =20mA	460	470	480	nm
Half Width	Δλ	I _F =20mA		25		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±40		deg.

‡Total Radiated Power is measured by PD S3584-08.

‡Brightness is measured by Tektronix J-6501.