



L470-__ _V Blue LED Lamp

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

1) Specifications

- (1) Chip material InGaN
- (2) Peak wavelength 470nm typ.
- (3) Package Clear epoxy resin
- (4) Lead frame Soldered

2) Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	T _a =25°C
Forward Current	I _F	30	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	T _a =25°C
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

3) Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.8	4.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		5.0		mW
Peak Wavelength	λ _P	I _F =20mA	460	470	480	nm
Half Width	Δλ	I _F =20mA		25		nm

4) Characteristics of Brightness [T_a=25°C]

Type	Viewing Half Angle	Brightness I _F =20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L470-01V	±10°		2500		φ5	1
L470-02V	±5°		3500		φ5	2
L470-03V	±12°		2000		φ5	3
L470-04V	±23°		900		φ5	4
L470-05V	±30°		320		φ5	5
L470-06V	±9°		4000		φ5	6
L470-09V	±20°(Long)		1350		φ5	7
	±13°(Short)				Oval	
L470-10V					φ10	8
L470-33V	±18°		1000		φ3	9
L470-36V	±28°		550		φ3	10

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.