

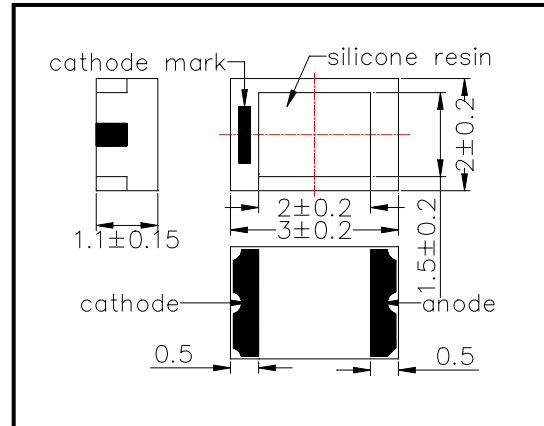
SMC470 High Bright Blue color SMD LED on ceramics

SMC470 consists of an InGaN LED mounted on the ceramics package and is sealed with silicone resin.
It emits a spectral band of radiation at 470nm.

◆ Specifications

- | | |
|---------------------|-------------------------|
| 1) Product Name | SMD type Blue color LED |
| 2) Type No. | SMC470 |
| 3) Chip | |
| (1) Chip Material | InGaN |
| (2) Peak Wavelength | 470nm typ. |
| 4) Package | |
| (1) Package | Ceramics |
| (2) Lens | Silicone resin |

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Rating

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}	-20 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	220	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 220°C

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.80	4.30	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		3.5		mW
Brightness	I _V	I _F =20mA	100	200		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		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.