

**SMC490**

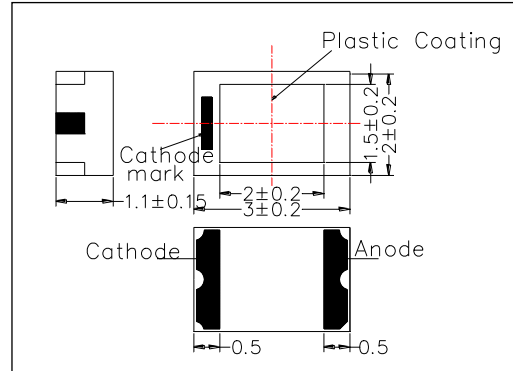
High Bright Greenish Blue Color SMD LED on Ceramics

SMC490 consists of an InGaN LED mounted on the ceramics package and is sealed with silicone resin. It emits a spectral band of radiation at 490nm.

<Specifications>

1. Product Name: SMD Greenish Blue Color LED
2. Type Number: SMC490
3. Chip:
  - Chip Material: InGaN
  - Peak Wavelength: 490nm type
4. Package
  - Package: Ceramics
  - Lens: Silicone Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	120	mW	Ta=25°C
Forward Current*	IF	30	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-20 ~ +85	°C	
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature**	TSOL	250	°C	

\* Duty=1% and Pulse Width=10us

\*\* Soldering condition must be completed within 5 seconds at 250°C

Electro-Optical Characteristics[Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.5	4.3	V
Reverse Current	IR	VR=5V			10	uA
Radiated Power*	PO	IF=20mA		1.0		mW
Brightness	IV	IF=20mA		75		mcd
Radiant Intensity**	IE	IF=20mA		0.3		mW/sr
Peak Wavelength	λP	IF=20mA	480	490	500	nm
Half Width	Δλ	IF=20mA		30		nm
Viewing Half Angle	θ1/2	IF=20mA		±55		deg

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-6512

