

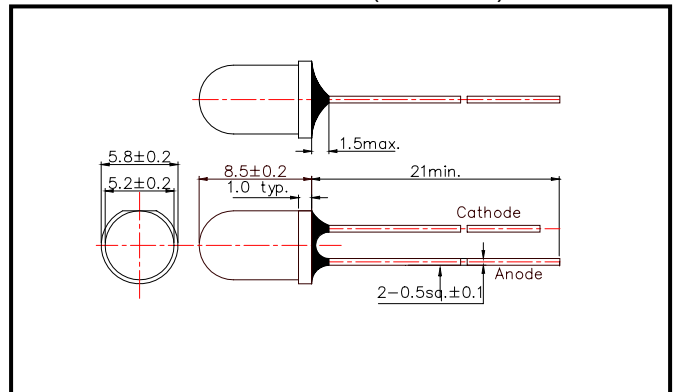
# L490-02U Greenish Blue LED Lamp

L490-02U 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 490nm.

## ◆ Specifications

1) Product Name	Greenish Blue LED Lamp
2) Type No.	L490-02U
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	490nm typ.
4) Package	
(1) Type	φ5mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered

## ◆ Outer dimension (Unit: mm)



## ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	$P_D$	120	mW	$T_a=25^\circ\text{C}$
Forward Current	$I_F$	30	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	$V_R$	5	V	$T_a=25^\circ\text{C}$
Operating Temperature	$T_{OPR}$	-30 ~ +85	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	260	$^\circ\text{C}$	

‡Soldering condition: Soldering condition must be completed within 3 seconds at  $260^\circ\text{C}$

## ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F=20\text{mA}$		3.8	4.3	V
Reverse Current	$I_R$	$V_R=5\text{V}$			10	$\mu\text{A}$
Total Radiated Power	$P_O$	$I_F=20\text{mA}$		1.2		mW
Brightness	$I_V$	$I_F=20\text{mA}$		3000		mcd
Peak Wavelength	$\lambda_P$	$I_F=20\text{mA}$	480	490	500	nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		30		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$		$\pm 4$		deg.

‡Brightness is measured by Tektronix J-16.

‡Radiant Intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741