

L490-02

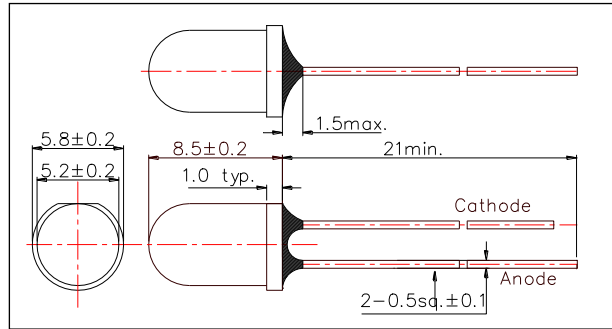
High Bright Greenish Blue LED Lamp

L490-02 is an InGaN LED mounted on a lead frame with a clear epoxy resin. On forward bias, it emits a band of visible light that peaks 490nm.

<Specifications>

1. Product Name: Blue LED Lamp
2. Type Number: L490-02
3. Chip:
 - Chip material: InGaN
 - Peak Wavelength: 490nm typ.
4. Package
 - Type: Φ5mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	200	mW
Forward Current	IF	50	mA
Reverse Voltage	VR	5	V
Thermal Resistance*	Rthja	370	K/W
Junction Temperature	Tj	100	°C
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Junction - ambient, leads 7mm, soldered on PCB.

** Soldering condition must be completed within 3 second at 265 °C.

Electro-Optical Characteristics [Ta=25°C]							
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit	
Forward Voltage	VF	IF=20mA		3.3	4.0	V	
Reverse Current	IR	VR=5V			10	uA	
Total Radiated Power*	PO	IF=20mA		12		mW	
Radiant Intensity**	IE	IF=20mA		80		mW/sr	
Brightness***	IV	IF=20mA		18,000		mcd	
Wavelength	Peak	λP	IF=20mA	480	490	500	nm
	Dominant	λD	IF=20mA		496		
Half Width	Δλ	IF=20mA		30		nm	
Viewing Half Angle	θ1/2	IF=20mA		±5		deg	

* Measured by S3584-08

** Measured by Tektronix J-6512

*** Measured by Tektronix J-16

