

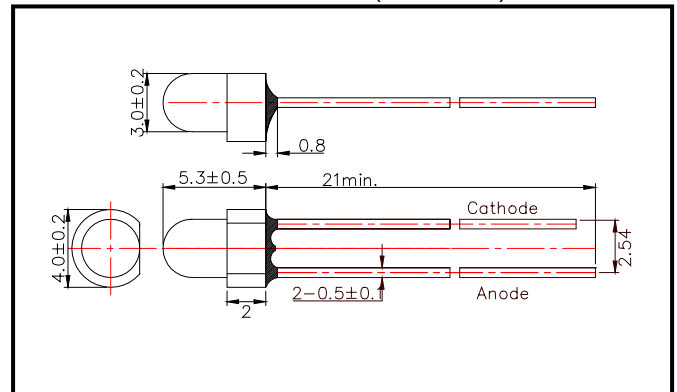
# L490-36U Greenish Blue LED Lamp

L490-36U 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.         | L490-36U               |
| 3) Chip             |                        |
| (1) Chip Material   | InGaN                  |
| (2) Peak Wavelength | 490nm typ.             |
| 4) Package          |                        |
| (1) Type            | φ3mm 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 <sub>D</sub>	120	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	30	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +85	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	260	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

## ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA		3.8	4.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA		1.2		mW
Brightness	I <sub>v</sub>	I <sub>F</sub> =20mA		280		mcd
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	480	490	500	nm
Half Width	Δλ	I <sub>F</sub> =20mA		30		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±32		deg.

‡Brightness is measured by Tektronix J-16.

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

EPITEX INC. : 4, Nishiaketa-Cho, Higashi-Kujyou, Minami-Ku, Kyoto, Japan

Tel.: ++81-75-682-2338 Fax: ++81-75-682-2267

e-mail: [sales-dep@epitex.com](mailto:sales-dep@epitex.com)

<http://www.epitex.com>