

L490-__ __ Greenish Blue LED Lamp

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

1) Specifications

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|---------------------|-------------------|
| (1) Chip material | InGaN |
| (2) Peak wavelength | 490nm typ. |
| (3) Package | Clear epoxy resin |
| (4) Lead frame | Soldered |

2) 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	-30 ~ +85	°C	Ta=25°C
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature	TSOL	260	°C	

3) Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.8	4.3	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power	PO	IF=20mA		1.2		mW
Peak Wavelength	λP	IF=20mA	480	490	500	nm
Half Width	Δλ	IF=20mA		30		nm

4) Characteristics of Brightness [Ta=25°C]

Type	Viewing Half Angle	Brightness IF=20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L490-01	±9°		1500		φ5	1
L490-02	±4°		3000		φ5	2
L490-03	±12°		1400		φ5	3
L490-04	±20°		400		φ5	4
L490-05	±30°		150		φ5	5
L490-06	±5°		4000		φ5	6
L490-09	±18°(Long)		780		φ5	7
	±14°(Short)			Oval		
L490-31					φ3	8
L490-33	±16°		750		φ3	9
L490-34					φ3	10
L490-36	±32°		280		φ3	11
L490-41					φ4	12
L490-42					φ4	12

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.