



L505-__U Bluish Green LED Lamp

This series of L505-__U 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 505nm.

1) Specifications

- | | |
|---------------------|-------------------|
| (1) Chip material | InGaN |
| (2) Peak wavelength | 505nm typ. |
| (3) Package | Clear epoxy resin |
| (4) Lead frame | Soldered |

2) Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	T _a =25°C
Forward Current	I _F	30	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	T _a =25°C
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.5	4.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		1.3		mW
Peak Wavelength	λ _P	I _F =20mA	495	505	515	nm
Half Width	Δλ	I _F =20mA		30		nm

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

Type	Viewing Half Angle	Brightness I _F =20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L505-01U	±9°		2000		φ5	1
L505-02U	±4°		4000		φ5	2
L505-03U	±12°		1700		φ5	3
L505-04U	±25°		600		φ5	4
L505-05U	±30°		220		φ5	5
L505-06U	±5°		5600		φ5	6
L505-09U	±23°(Long)		1100		φ5	7
	±13°(Short)				Oval	
L505-10U	±5°		10000		φ10	8
L505-33U	±15°		1000		φ3	9
L505-36U	±28°		380		φ3	10

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.