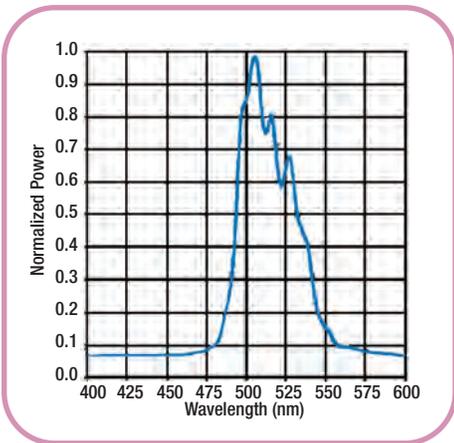
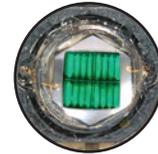


505 nm Mounted or Mounted and Collimated LEDs



- High-Power LED
- Average Lifetime of 100,000 Hours
- Mounted on Heatsink
- Compatible with Many of Our LED Controllers (See Pages 1223-1228)

NEW
products



Typical Emitter

CHARACTERISTIC (T _a = 25 °C, I = 700 mA)	MIN	TYP	MAX
Peak Wavelength	490 nm	505 nm	520 nm
Spectral Full Width	–	58.6 nm	–
Forward Current	–	–	700 mA
Peak Pulsed Forward Current	–	–	1,000 mA
Forward Voltage	5.43 V	6.84 V	8.31 V
Operating Temperature	-40 °C	–	120 °C
Storage Temperature	-40 °C	–	120 °C
Lifetime	–	100,000 hrs	–

Thorlabs offers 505 nm mounted LEDs with or without collimation optics. Both types of units use the same LED with EEPROM, which is housed in an internally SM1-threaded housing. The mounted LED can be easily incorporated into lens tube or cage systems via the SM1 threading. The collimated versions house an optic in a microscope-compatible adapter that can be easily installed into the epi-illumination port of many microscopes made by Leica, Nikon, Zeiss, or Olympus.

Drivers

We recommend using either the LEDD1A T-Cube driver or the DC2100 LED driver to control the LED. The T-Cube version is compact and offers basic controls for current and toggling between CW or pulsed operation. When pulsing the LED, an external trigger must be connected to the T-Cube's BNC connection. Please note that a power supply is not included with our T-Cubes, but the TPS001 single-channel power supply is available below.

The DC2100 is a more sophisticated controller that is capable of CW or pulsed operation up to 10 kHz. If an external trigger is used, pulse frequency can be increased up to 100 kHz. Additionally, the DC2100 can read the LED's EEPROM, which contains operating parameters, such as the maximum current that help to prolong the life of the LED. Please see pages 1223-1228 for more details on these drivers as well as other compatible drivers.



Mounted LED, P = 420 mW

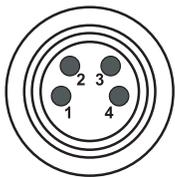
- Uncollimated, Lambertian Radiation Pattern
- Internally SM1 Threaded



LEDC12

Collimated LED, P = 101 - 115 mW

- Closely Collimated Beam
- High Power Density
- Adjustable Focus
- Designed to Integrate into Standard Microscopes



Pin	Description
1	LED +Ve
2	LED -Ve
3	Not Connected
4	Not Connected

ITEM#	MICROSCOPE	POWER	BEAM	BEAM AREA
LEDC9	Olympus BX/IX	115 mW	Ø50 mm	1963 mm ²
LEDC10	Leica DMI	115 mW	Ø37 mm	1075 mm ²
LEDC11	Nikon Eclipse (F Mount)	101 mW	Ø43 mm	1452 mm ²
LEDC12	Zeiss Axioskop	101 mW	Ø44 mm	1521 mm ²

ITEM#	\$	£	€	RMB	DESCRIPTION
M505L1	\$ 127.50	£ 88.40	€ 113.20	¥ 1,076.70	505 nm, 420 mW, Mounted LED
LEDC9	\$ 331.50	£ 229.90	€ 294.40	¥ 2,799.20	505 nm, 115 mW, Collimated LED for Olympus BX/IX Microscopes
LEDC10	\$ 331.50	£ 229.90	€ 294.40	¥ 2,799.20	505 nm, 115 mW, Collimated LED for Leica DMI Microscopes
LEDC11	\$ 331.50	£ 229.90	€ 294.40	¥ 2,799.20	505 nm, 101 mW, Collimated LED for Nikon Eclipse (F Mount) Microscopes
LEDC12	\$ 331.50	£ 229.90	€ 294.40	¥ 2,799.20	505 nm, 101 mW, Collimated LED for Zeiss Axioskop Microscopes
LEDD1A*	\$ 269.00	£ 186.50	€ 238.90	¥ 2,271.50	T-Cube LED Driver, 1000 mA
TPS001	\$ 25.00	£ 17.40	€ 22.20	¥ 211.20	T-Cube Power Supply
DC2100	\$ 1,750.00	£ 1,213.00	€ 1,553.50	¥ 14,778.00	High-Power LED Driver with Modulation, 2000 mA

* Power supply sold separately, see TPS001 or page 1104.