

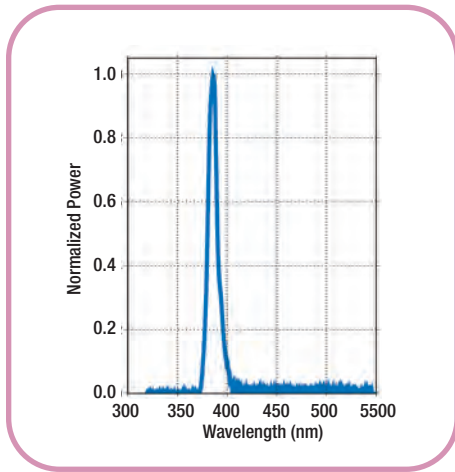
385 nm Mounted or Mounted and Collimated LEDs

- High-Power LED
- Average Lifetime of 500 Hours
- Mounted on Heatsink
- Compatible with Many of Our LED Controllers (See Pages 1223-1228)

NEW
products



Typical Emitter



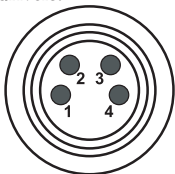
CHARACTERISTIC (T _a = 25 °C)	MIN	TYP	MAX
Peak Wavelength	380 nm	385 nm	390 nm
Spectral Full Width	–	20 nm	–
Forward Current	–	–	700 mA
Peak Pulsed Forward Current	–	1000 mA	–
Forward Voltage	–	4.3 V	–
Operating Temperature	-40 °C	–	120 °C
Storage Temperature	-40 °C	–	120 °C
Lifetime	–	500 hrs	–

Thorlabs offers 385 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.



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



Mounted LED, P = 450 mW

- Uncollimated, Lambertian Radiation Pattern
- Internally SM1 Threaded



LEDC37

Collimated LED, P = 111 - 135 mW

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

ITEM#	MICROSCOPE	POWER	BEAM	BEAM AREA
LEDC37	Olympus BX/IX	135 mW	Ø50 mm	1963 mm ²
LEDC38	Leica DMI	111 mW	Ø37 mm	1075 mm ²
LEDC39	Nikon Eclipse (F Mount)	118 mW	Ø43 mm	1452 mm ²
LEDC40	Zeiss Axioskop	119 mW	Ø44 mm	1521 mm ²

ITEM#	\$	£	€	RMB	DESCRIPTION
M385L1	\$ 395.00	£ 273.90	€ 350,70	¥ 3,335.40	385 nm, 450 mW, Mounted LED
LEDC37	\$ 660.00	£ 457.60	€ 586,00	¥ 5,573.10	385 nm, 135 mW, Collimated LED for Olympus BX/IX Microscopes
LEDC38	\$ 660.00	£ 457.60	€ 586,00	¥ 5,573.10	385 nm, 111 mW, Collimated LED for Leica DMI Microscopes
LEDC39	\$ 660.00	£ 457.60	€ 586,00	¥ 5,573.10	385 nm, 118 mW, Collimated LED for Nikon Eclipse
LEDC40	\$ 660.00	£ 457.60	€ 586,00	¥ 5,573.10	385 nm, 119 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.