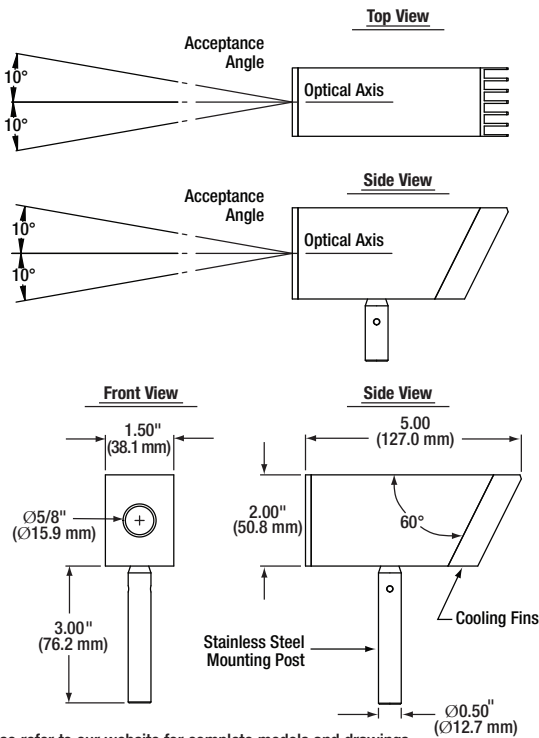


# Beam Trap



Please refer to our website for complete models and drawings.

## Features

- Minimize Scattered Laser Beam Energy
- ±10° Acceptance Angle
- Ø0.625" (Ø15.9 mm) Aperture
- 3" (75 mm) Post Included



Base Sold Separately (See Page 85)

Beam traps are common laser lab safety devices that are designed to absorb a laser beam's energy. To use, simply aim a beam into the Ø0.625" (Ø15.9 mm) entrance aperture. The trap has a ±10° entrance angle to simplify the alignment process. One TR3 (TR75/M) post is included with each beam trap.

ITEM#	BT500	BT510
Wavelength Range	200 -1500 nm	400 – 1500 nm
Laser Type	CW & Pulsed	Pulsed & CW
Max Average Power	40 W <sup>a</sup>	30 W
Max Average Power Density	70 W/cm <sup>2</sup>	15 W/cm <sup>2</sup>
Max Average Energy Density <sup>b</sup>	30 mJ/cm <sup>2</sup>	18.8 J/cm <sup>2</sup> (1064 nm, 20 Hz) 44 J/cm <sup>2</sup> (1064 nm, 5 Hz)
Backscatter <sup>c</sup>	6 x 10 <sup>-4</sup>	6 x 10 <sup>-6</sup>

<sup>a</sup> Withstands higher powers, but the BT500's temperature will be >100 °C.

<sup>b</sup> Performance varies based on material variability.

<sup>c</sup> Integrated backscatter based on fraction of power from the incident beam.

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
BT500	BT500/M	\$ 229.50	£ 159.10	€ 203,80	¥ 1,938.00	Beam Trap for CW Lasers
BT510	BT510/M	\$ 290.70	£ 201.60	€ 258,10	¥ 2,454.70	Beam Trap for Pulsed Lasers

# Beam Block

## Features

- Absorbs CW Beams up to 10 W
- Includes 3" (75 mm) Long TR Series Post
- Large 1.4" (35.6 mm) x 0.7" (17.8 mm) Target Area

The LB1 Beam Block is a compact solution, capable of absorbing CW laser beams up to 10 W. This beam block has a 1.4" (35.6 mm) x 0.7" (17.8 mm) aperture, which allows for larger beams and scattered light to be absorbed. An interchangeable Ø1/2" x 3" (Ø12.7 mm x 75 mm) TR post (see page 88) is included with each LB1.



LB1

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
LB1	LB1/M	\$ 45.20	£ 31.40	€ 40,20	¥ 381.70	1.4" x 0.7" (35.6 mm x 17.8 mm) Beam Block

# OPTICAL POWER AND ENERGY METERS

## Over 25 Sensors Available

Thorlabs offers photodiode, thermal, and pyroelectric sensors for light detection in the 185 nm - 25 µm spectral range with output powers from 100 pW to 200 W.

## NEW C-Series Power Meter Displays

Our new C-Series of power and energy meters are directly compatible with our large selection of photodiode, thermal, and pyroelectric sensors. Analog and digital models are available, as is a 2-channel benchtop unit and for industrial users a compact USB power meter module (no display) is ideal for use in production facilities.



2-Channel Benchtop Power and Energy Meter



Digital Power and Energy Meter

Power Meter Section Starts on Page 1265