

1.1.2.3 Low Power Thermal Sensors

1.1.2.3.2 Beam Trap

Up to 50W

Features

- Does not measure power, traps beam only
- Power capacity up to 50W
- Backscattered power 0.05%
- Pulsed damage threshold 4J/cm²
- Average power density up to 16kW/cm²
- Ø15mm aperture



The BT50A-15 absorbs a laser beam that is inserted into the entrance aperture parallel to the unit's optic axis. The beam trap is designed that only a very small fraction of the light is backscattered. The BT50A-15 does not measure power. It is a beam trap only.

When operated at full power, the BT50A-15 can heat up to over 100degC. Note that the absorbing element of the beam trap is graphite which may not be suitable for some environments.

Model	BT50A-15
Use	Beam trap for CW and pulsed lasers up to 50W average power
Absorber Type	Broadband graphite absorber
Spectral Range μm	0.19 - 20
Backscatter	0.05% or less, typical
Aperture mm	Ø15mm
Maximum Acceptance Angle	± 10 degrees
Maximum Incident Power	50W
Maximum Average Power Density	16kW/cm ²
Maximum Energy Density	<100ns pulses 4J/cm ² 2ms pulses 100J/cm ²
Cooling	convection
Dimensions	See drawing below
Weight kg	0.9
Compliance	RoHS, China RoHS
Version	
Part number	7Z17204

BT50A-15

