

Coherent® Beam Position Thermopile Power Sensors 1168342 | 100mW-25W

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£1,620⁰⁰

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General	
Model Number:	
LM-45 Coherent Part Number: 1168342	
Type:	
Meterless	
Linearity (%):	
±1	
Calibration Uncertainty (%):	
±2	

0.5 - 50	Long Pulse Joule Mode Range (J):
±3	Long Pulse Joule Mode Accuracy (%):
Air	Cooling Method:
600mJ/cm ² (10ns, 1064nm)	Maximum Incident Energy Density:

Physical & Mechanical Properties

19	Active Area Diameter (mm):
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Optical Properties

10,600	Calibration Wavelength (nm):
0.25 - 10.6	Wavelength Range (µm):

Sensor

Quad Element Thermopile	Type of Sensor:
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Electrical

±1.5	Spectral Compensation Accuracy (%):
25	Maximum Incident Beam Power (W):
6	Maximum Incident Power Density (kW/cm ²):
100mW - 25W	Power Range:
100	Minimum Power (mW):

Hardware & Interface Connectivity

2.5	Length of Cable (m):
USB	Computer Interface:

Regulatory Compliance

Exempt	RoHS 2015:
Contains SVHC(s)	Reach 224:
View	Certificate of Conformance:

Product Details

- Thermopile Detector Element for High Power Measurements
- Measure Beam Position on Detector Surface
- ISO 17025 Certified

Coherent® Beam Position Sensing Thermopile Power Sensors are all-purpose sensors designed to measure the average power or energy of a wide variety of continuous wave or pulsed lasers. Coherent Beam Position Sensing Thermopile Power Sensors utilize a quadrant thermopile detector disk to sense the position of the laser beam on the detector surface while measuring the laser power. Coherent thermopile sensors can operate across a wide range of input powers, and do not saturate.

Note: The LM-20 is designed for embedded use and must be mounted on a heat sink.