

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

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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/cm² (10ns, 1064nm) **Maximum Incident Energy Density:**

Physical & Mechanical Properties

19 **Active Area Diameter (mm):**

Optical Properties

10,600 **Calibration Wavelength (nm):**

0.25 - 10.6 **Wavelength Range (µm):**

Sensor

Quad Element Thermopile **Type of Sensor:**

Electrical

±1.5 **Spectral Compensation Accuracy (%):**

25 **Maximum Incident Beam Power (W):**

6 **Maximum Incident Power Density (kW/cm²):**

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.