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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

Long Pulse Joule Mode Range (J):
0.5 - 50

Long Pulse Joule Mode Accuracy (%):
±3

Cooling Method:
Air

Maximum Incident Energy Density:
600mJ/cm^2 (10ns, 1064nm)

Physical & Mechanical Properties

Active Area Diameter (mm):
19

Optical Properties

Calibration Wavelength (nm):
10,600

Wavelength Range (µm):
0.25 - 10.6

Sensor

Type of Sensor:
Quad Element Thermopile

Electrical

Spectral Compensation Accuracy (%):
±1.5

Maximum Incident Beam Power (W):
25

Maximum Incident Power Density (kW/cm^2):
6

Power Range:
100mW - 25W

Minimum Power (mW):
100

Hardware & Interface Connectivity

Length of Cable (m):
2.5

Computer Interface:
USB

Regulatory Compliance

RoHS 2015:
Exempt

Reach 224:
Contains SVHC(s)

Certificate of Conformance:
View

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.

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