

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

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#### General

**Model Number:**  
LM45  
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<sup>2</sup> (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<sup>2</sup>):

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.