

# Coherent® Beam Position Thermopile Power Sensors 1098320 | 100mW-45W

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**General**

**Model Number:**  
LM45 HTD Coherent Part Number: 1098320

**Meter required**      **Type:**

**Linearity (%):**  
±1

**Calibration Uncertainty (%):**  
±2

**Long Pulse Joule Mode Range (J):**  
0.5 - 10

±3 Long Pulse Joule Mode Accuracy (%):

Air Cooling Method:

Compatible Meters:  
[#35-203](#), [#12-393](#), [#59-978](#),  
[#88-411](#), [#66-277](#), [#88-412](#)

## 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 (%):

45 Maximum Incident Beam Power (W):

## Hardware & Interface Connectivity

2.5 Length of Cable (m):

DB-25 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.