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# Coherent® Beam Position Thermopile Power Sensors 1174270 | 100mW-20W

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## General

**Model Number:**

LM-20
Coherent Part Number: 1174270

**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):**
20

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

**Power Range:**
100mW - 20W

**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

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

- 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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