

# Coherent® Thermopile Power Sensor 1098412 | 150W, DB25

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## Product Downloads

## General

Model Number:

PM150-50C  
Coherent Part Number: 1098412

Type:

[Meter required](#)

Calibration Uncertainty (%):

±1

1 - 150 **Long Pulse Joule Mode Range (J):**

Water/Air **Cooling Method:**

0.6 @ 1064nm, 10ns **Maximum Incident Energy Density (J/cm<sup>2</sup>):**

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

## Physical & Mechanical Properties

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

## Optical Properties

514 **Calibration Wavelength (nm):**

250 - 11000 **Wavelength Range (nm):**

0.25 - 11 **Wavelength Range (µm):**

## Sensor

Thermopile **Type of Sensor:**

## Electrical

80 (air-cooled) **Maximum Intermittent Power, <5min (W):**

6 **Maximum Incident Power Density (kW/cm<sup>2</sup>):**

300mW - 150W **Power Range:**

## Hardware & Interface Connectivity

2.0 **Length of Cable (m):**

DB25 **Computer Interface:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

## Product Details

- Superior Damage Resistance
- Wide Dynamic Range
- ISO 17025 Certified

Coherent® Thermopile Power Sensors are ideal for measuring the average power of continuous wave lasers or pulsed laser energy. Thermopile sensors operate by absorbing and converting incident laser radiation into heat, which then flows to a heat sink. The temperature difference between the absorber and heat sink is converted into an electrical signal by a thermocouple junction. Coherent® Thermopile Power Sensors, unlike semiconductor sensors, do not saturate. Unlike semiconductor sensors, thermopile sensors feature high power capability and flat spectral response.