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Coherent® Thermopile Power Sensor 1098412 | 150W, DB25

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General

Model Number:
PM150-50C
Coherent Part Number: 1098412

Type:
Meter required

Calibration Uncertainty (%):
±1

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

Cooling Method:
Water/Air

Maximum Incident Energy Density (J/cm^2):
0.6 @ 1064nm, 10ns

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

Physical & Mechanical Properties

Active Area Diameter (mm):
50

Optical Properties

Calibration Wavelength (nm):
514

Wavelength Range (nm):
250 - 11000

Wavelength Range (µm):
0.25 - 11

Sensor

Type of Sensor:
Thermopile

Electrical

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

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

Power Range:
300mW - 150W

Hardware & Interface Connectivity

Length of Cable (m):
2.0

Computer Interface:
DB25

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

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.

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