

Coherent® Thermopile Power Sensor 1168348 | 300mW - 150W, USB

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1

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€1.840⁰⁰

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Product Downloads

General	
Model Number:	
PM150-50C Coherent Part Number: 1168348	
Type:	
Meterless	
Calibration Uncertainty (%):	
±2	

1 - 150	Long Pulse Joule Mode Range (J):
Water/Air	Cooling Method:
0.6 @ 1064nm, 10ns	Maximum Incident Energy Density (J/cm²):
Physical & Mechanical Properties	
50	Active Area Diameter (mm):
Optical Properties	
10600	Calibration Wavelength (nm):
190 - 11000	Wavelength Range (nm):
0.19 - 11	Wavelength Range (µm):
Sensor	
Thermopile	Type of Sensor:
Electrical	
80 (air-cooled)	Maximum Intermittent Power, <5min (W):
6	Maximum Incident Power Density (kW/cm²):
300mW - 150W	Power Range:
Hardware & Interface Connectivity	
2.5	Length of Cable (m):
USB	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.