Fan-Cooled Thermopile Sensors to 300 W

Fan-Cooled Thermopile Sensors for Measurement of Laser Power up to 300 W

Forced-air, fan-cooled sensors enable measurement of higher powers than passively cooled sensors, and are an excellent choice for measuring high-power lasers when water-cooling is not possible. These sensors allow for continuous power monitoring at 200 W and 300 W with aperture diameters up to 50 mm (depending upon model).

In conjunction with their compact size, ease of portability makes fan-cooled sensors particularly useful for field service or production test applications.

A compact wall-mount power supply provides the 12 VDC required to power the low-noise, brushless fan motor.

FEATURES & BENEFITS

- Maximum powers from 200 W to 300 W
- Minimum power down to 1 W
- Broadband and Excimer coatings
- Fan-cooled
- 0.25 µm to 11 µm spectral range
- 19 mm and 50 mm diameter active areas
- RoHS compliant

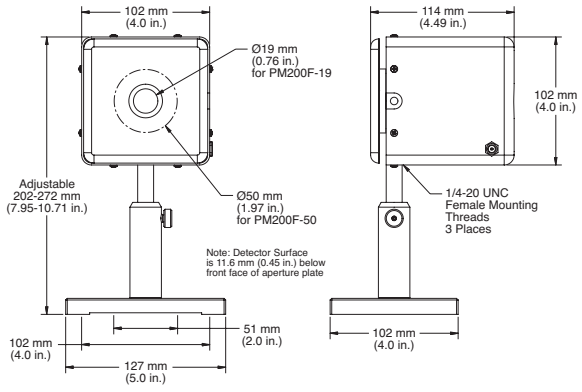
COHERENT®
Superior Reliability & Performance

SPECIFICATIONS	PM200F-19	PM200F-50	PM300F-19	PM300F-50
Wavelength Range (µm)	0.25 to 11			
Power Range (W)	1 to 200		1 to 300	
Long-Pulse Joules Range (J)	1 to 200		1 to 300	
Maximum Intermittent Power (<5 min.) (W)	300		450	
Resolution (W)	100			
Maximum Power Density (kW/cm^2)	6			
Maximum Energy Density (mJ/cm^2)	600, 1064 nm, 10 ns			
Response Time (sec.)	2	5	2	5
Detector Coating	Broadband			
Active Area Diameter (mm)	19	50	19	50
Calibration Uncertainty (%) (k=2)	±1			
Calibration Wavelength (nm)	514			
Cooling Method	Fan-cooled			
Cable Type	PM DB-25			
Cable Length (m)	2			
Part Number	1098480	1098472[1]	1098509[1]	1098417

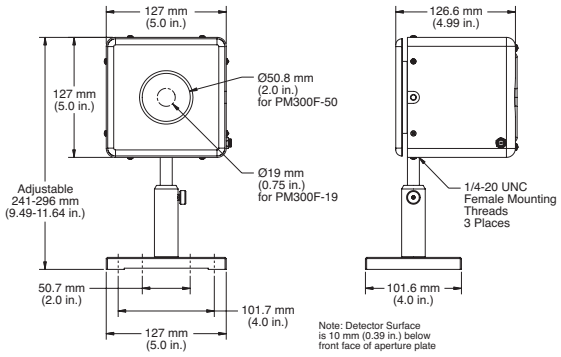
1 C24 Quick Ship program: eligible for next business day shipment.

MECHANICAL SPECIFICATIONS

PM200F-19/PM200F-50



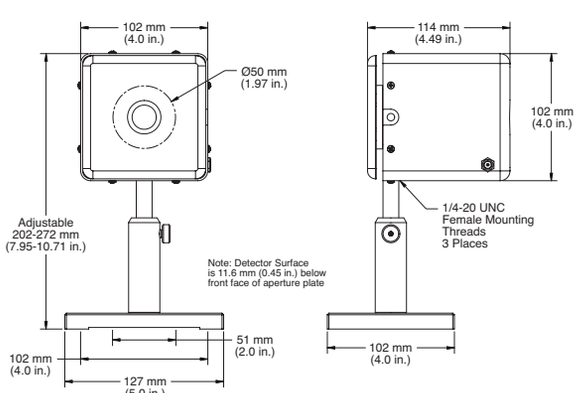
PM300F-19/PM300F-50



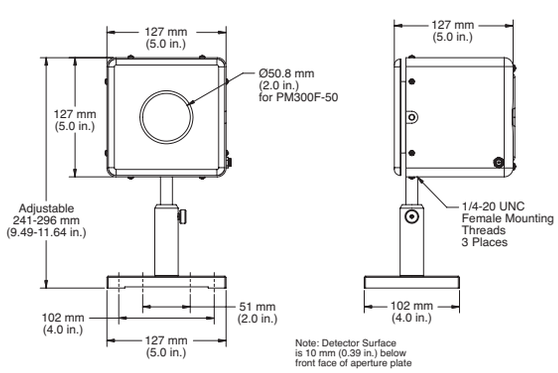
SPECIFICATIONS	PM200F-50X	PM300F-50X
Wavelength Range (µm)	0.15 to 1	
Power Range (W)	1 to 200	1 to 300
Long-Pulse Joules Range (J)	1 to 200	1 to 300
Maximum Intermittent Power (<5 min.) (W)	300	450
Resolution (W)	100	
Maximum Power Density (kW/cm^2)	6	
Maximum Energy Density (mJ/cm^2)	600, 1064 nm, 10 ns	
Response Time (sec.)	5	
Detector Coating	UV	
Active Area Diameter (mm)	50	
Calibration Uncertainty (%) (k=2)	±1	
Calibration Wavelength (nm)	514	
Cooling Method	Fan-cooled	
Cable Type	PM DB-25	
Cable Length (m)	2	
Part Number	1113493	1098481

MECHANICAL SPECIFICATIONS

PM200F-50X



PM300F-50X



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