

Coherent® PowerMax USB PS19Q Measurement System 1168343 | 1W Max Power

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General

Model Number:
PS19Q Coherent Part Number: 1168343

Type:
Meterless

Linearity (%):
±1

Calibration Uncertainty (%):
±2

Long Pulse Joule Mode Range (J):
0.001 - 1

±3 **Long Pulse Joule Mode Accuracy (%)**:

Air **Cooling Method:**

2 **Response Time (s):**

Note:
Includes a Wedged Quartz Window to Eliminate Thermal Background Radiation and Air Current Effects

Maximum Incident Energy Density:
50mJ/cm² (10ns, 1064nm)

Physical & Mechanical Properties

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

Optical Properties

514 **Calibration Wavelength (nm):**

300 - 2100 **Wavelength Range (nm):**

0.3 - 2.1 **Wavelength Range (µm):**

Sensor

Thermopile **Type of Sensor:**

Electrical

±1.5 **Spectral Compensation Accuracy (%)**:

0.5 **Maximum Incident Power Density (kW/cm²):**

100µW - 1W **Power Range:**

0.1 **Minimum Power (mW):**

1 **Maximum Power (W):**

3µW **Noise Equivalent Power:**

Hardware & Interface Connectivity

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

USB **Computer Interface:**

Environmental & Durability Factors

Yes **Thermally Stabilized:**

Regulatory Compliance

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

[Contains SVHC\(s\)](#) **Reach 224:**

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

Product Details

- 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.