

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

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#### Product Downloads

#### General

**Model Number:**  
PS19Q Coherent Part Number: 1168343

**Type:**  
Meterless

**Linearity (%):**  
±1

**Calibration Uncertainty (%):**  
±2

**Long Pulse Joule Mode Range (J):**

0.001 - 1

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

±3

**Cooling Method:**

Air

**Response Time (s):**

2

**Note:**

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

**Maximum Incident Energy Density:**

50mJ/cm<sup>2</sup> (10ns, 1064nm)

## Physical & Mechanical Properties

**Active Area Diameter (mm):**

19

## Optical Properties

**Calibration Wavelength (nm):**

514

**Wavelength Range (nm):**

300 - 2100

**Wavelength Range (µm):**

0.3 - 2.1

## Sensor

**Type of Sensor:**

Thermopile

## Electrical

**Spectral Compensation Accuracy (%):**

±1.5

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

0.5

**Power Range:**

100µW - 1W

**Minimum Power (mW):**

0.1

**Maximum Power (W):**

1

**Noise Equivalent Power:**

3µW

## Hardware & Interface Connectivity

**Length of Cable (m):**

2.5

**Computer Interface:**

USB

## Environmental & Durability Factors

**Thermally Stabilized:**

Yes

## Regulatory Compliance

**RoHS 2015:**

[Exempt](#)

**Reach 224:**

[Contains SVHC\(s\)](#)

**Certificate of Conformance:**

[View](#)

## 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.

