

Agilent E6006A Power Meter Submodule

Characteristics

Sensor element:	InGaAs
Wavelength range:	800 - 1650 nm
Calibrated wavelengths:	850 nm, 1300 nm, 1310 nm, 1550 nm, 1625 nm (special wavelength on request).
Power range:	+10 to -70 dBm
Max. input power (damage level)	+13 dBm / 20 mW
Display Resolution	0.01 dB
Display Units:	dBm, dB, mW, μ W, nW, pW
Display Contents:	Calibrated λ in nm Modulation frequency in Hz Reference value in dB
Display Updates per second	3
Optical input:	User-exchangeable Connector Interface
Applicable fiber type	9/125 μ m, 50/125 μ m, 62.5/125 μ m

Specifications

Uncertainty at reference conditions:

$\pm 3\%$

Power level: -20 dBm

Continuous wave (CW)

Wavelength: 1300 \pm 3 nm, 1310 \pm 3 nm, 1550 \pm 3 nm

Fiber type: 50/125 μ m graded index, Agilent/HMS-10 connector

Spectral bandwidth: up to 10 nm

Ambient temperature: +18 to +28 °C

At day of calibration (add 0.3% for aging of over one year; add 0.6% for aging of over two years).

Total uncertainty:

$\pm 5\% \pm 0.5$ nW (1310, 1550 nm)

Power level: +0 to -50 dBm

Continuous Wave (CW)

Wavelength: 850 \pm 3 nm, 1300 \pm 3 nm, 1310 \pm 3 nm, 1550 \pm 3 nm

Fiber type: SM to 50 μ m graded index (add 2% to total uncertainty for fiber 62.5 μ m).

Straight and angled connectors

Ambient temperature: +10 to +40 °C

Within 2 years after calibration

Supplementary Performance Characteristics

- Automatic Zeroing Circuitry.
- Automatic Ranging.
- Modulation frequency recognition (270 Hz, 1 kHz, 2 kHz) is available at power levels between +10 and -45 dBm (peak amplitude).

- Wavelength encoding recognition (350 Hz, 550 Hz) is available at power levels between +10 and -45 dBm (peak amplitude).
- Dual Wavelength measurement is available at power levels between +10 and -45 dBm (peak amplitude).
- Reference value is presettable from +30 to -80 dBm.
- Each calibrated wavelength has its own reference memory.
- The actual display content can be transferred to reference memory (DISP → REF).
- Hold Data functionality.

General Specifications:

Dimensions: ca. 120 mm H x 40 mm W x 25 mm D
(4.7" x 1.6" x 1.0")

Weight: < 130 g.

Operating Temperature: 0 to +50 °C

Storage Temperature: -40 to +60 °C

Humidity: 95% R.H. from 0 °C to 40 °C non cond.

Recommended Recalibration Period: 2 years