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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, 1500 \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 level 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)

- 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: <130g.

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



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