

AGILENT

81626B

The Agilent 81626B is a high-power Germanium optical power head designed for accurate optical power measurements in the 850 nm to 1650 nm wavelength range. It is ideal for testing high-power optical transmitters, optical amplifiers, and other active fiber optic components.

SPECIFICATIONS

General

Interfaces	Proprietary interface cable connected to 81618A or 81619A interface module
Display	None (uses mainframe display)
Warm-up Time	40 min

Physical

Power Supply	Powered via the 81618A/81619A interface module from the mainframe
Operating Temperature	0 °C to +40 °C °C
Dimensions (W×H×D)	55 mm × 50 mm × 85 mm mm

Optical & Sensor Specifications

Detector Element Material	Germanium (Ge)
Sensor Active Area Diameter	5 mm
Wavelength Range	850 nm to 1650 nm
Optical Power Measurement Range	-50 dBm to +27 dBm
Maximum Safe Input Power	+28 dBm
Polarization Dependence	< ±0.01 dB (1200 nm to 1550 nm)
Spectral Ripple	< ±0.01 dB (1200 nm to 1550 nm)

Measurement Accuracy & Calibration

Linearity	±0.015 dB (-20 dBm to +23 dBm)
Calibration Cycle Interval	2 years

Physical & Mechanical Properties

Aperture Diameter	5 mm
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Environmental & Compliance

Storage Temperature Range	-40 °C to +70 °C
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Compatibility & System Accessories

Compatible Mainframe Models	8163A, 8163B, 8164A, 8164B, 8166A, 8166B
Compatible Interface Modules	81618A (Single Channel), 81619A (Dual Channel)
Fiber Type Compatibility	Single-mode (SM) and Multimode (MM)

Performance

Noise (peak-to-peak)	< 100 pW (1250 to 1650 nm), < 200 pW (950 to 1250 nm), < 10 nW (850 to 950 nm)
Return Loss	> 40 dB

Inputs & Outputs

Analog Output Voltage	0 to 2 V (into open circuit, max. 10 kΩ output impedance)
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Physical Characteristics

Attached Cable Length	2 m
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Connectivity

Cable Connector Type	15-pin D-Sub
Adapter Compatibility	Keysight D-type thread-on adapters (e.g., 81624DD)

TECHNOLOGY

Germanium (Ge) Photodiode Detector

APPLICATIONS

High-power optical power measurement, optical component testing, and fiber optic network verification

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