

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8485D

The Keysight (formerly Agilent / HP) 8485D is a highly sensitive diode power sensor designed for measuring average power from -70 dBm to -20 dBm over a wide frequency range of 50 MHz to 26.5 GHz. It features an APC-3.5 mm connector and is compatible with a large ecosystem of legacy and modern power meters.

SPECIFICATIONS

Physical

Operating Temperature	0 to 55 °C °C
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RF and Measurement Specifications

Sensor Type	Diode
Frequency Range	50 MHz to 26.5 GHz
Power Range	-70 dBm to -20 dBm
Measurement Type	Average power
Nominal Impedance	50 Ω
RF Connector Type	APC-3.5 mm (male)

Power Handling

Maximum Average Power	100 mW (+20 dBm)
Maximum Peak Power	100 mW (+20 dBm)

Compatibility

Included Accessories	11708A 30 dB attenuator (for 0 dBm, 50 MHz reference calibration)
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Performance

Maximum SWR (50 MHz to 4 GHz)	1.19
Maximum SWR (4 GHz to 12 GHz)	1.25
Maximum SWR (12 GHz to 18 GHz)	1.29
Maximum SWR (18 GHz to 26.5 GHz)	1.35
Zero Set	±20 pW
Zero Drift (1 hour)	±4 pW
Measurement Noise	4 pW

Environmental

Storage Temperature	-40 °C to +75 °C
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Calibration

Required Calibration Attenuator	Keysight 11708A 30 dB reference attenuator (required for calibrating against standard 0 dBm power meter reference)
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Accessories

Compatible Sensor Cables	Keysight 11730 Series (e.g., 11730A, 11730B)
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TECHNOLOGY

Diode Power Sensor

APPLICATIONS

RF and Microwave Power Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.