

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8484A

The HP Keysight 8484A is a highly sensitive diode power sensor designed for measuring average RF and microwave power levels from -70 dBm to -20 dBm over a frequency range of 10 MHz to 18 GHz. Used with compatible HP/Keysight power meters, it provides highly accurate measurements on a 50-ohm load and includes the HP 11708A 30 dB reference attenuator for precise calibration.

SPECIFICATIONS

General

Interfaces	Proprietary multi-pin power sensor connector (compatible with HP 11730-series cables)
Display	None (uses power meter display)
Sensor Type	High-sensitivity diode

Physical

Power Supply	Powered by compatible power meter via sensor cable
Operating Temperature	0 to 55 °C °C

RF Performance

Frequency Range	10 MHz to 18 GHz
Power Range	-70 dBm to -20 dBm (100 pW to 10 µW)
Nominal Impedance	50 ohms
Maximum SWR (10 MHz to 30 MHz)	1.40
Maximum SWR (30 MHz to 2 GHz)	1.15
Maximum SWR (2 GHz to 12.4 GHz)	1.20
Maximum SWR (12.4 GHz to 18 GHz)	1.25
Maximum Reflection Coefficient (10 MHz to 30 MHz)	0.166
Maximum Reflection Coefficient (30 MHz to 2 GHz)	0.07
Maximum Reflection Coefficient (2 GHz to 12.4 GHz)	0.091
Maximum Reflection Coefficient (12.4 GHz to 18 GHz)	0.111

Power Handling & Damage Limits

Maximum Average Power	200 mW (+23 dBm)
Maximum Peak Power	200 mW (+23 dBm)

System Compatibility & Interfaces

Compatible Power Meters	HP 435B, 436A, 437B, 438A
Sensor Cable Type	HP 11730 series power sensor cables
Calibration Reference Requirement	Requires 1 mW (0 dBm) 50 MHz reference source with 11708A 30 dB attenuator

Calibration & Accessories

Included Reference Attenuator	HP 11708A 30 dB attenuator
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Physical Characteristics

RF Input Connector	Type-N (male)
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Performance

Dynamic Range	50 dB (-70 to -20 dBm)
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Reference Attenuator

Reference Attenuator Model	11708A
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TECHNOLOGY

Diode

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.