

KEYSIGHT TECHNOLOGIES (AGILENT HP)

84815A

The Keysight (formerly Agilent / HP) 84815A is a high-performance peak power sensor designed for characterizing pulsed RF and microwave signals. Operating over a wide frequency range of 20 MHz to 18 GHz, this sensor is engineered to work seamlessly with the HP 8990A, 8991A, and 8992A Peak Power Analyzers, offering rapid rise times and accurate tracking of fast pulse envelopes.

SPECIFICATIONS

General

Interfaces	Proprietary multi-pin sensor cable for direct connection to HP 8990-series analyzers
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Physical

Power Supply	Power supplied directly by the connected peak power analyzer host
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	38 mm × 30 mm × 152 mm mm
Weight	0.28 kg kg
Integrated Cable Length	1.5 m (5 ft)

Measurement Ranges & Power Specifications

Frequency Range Minimum	20 MHz
Frequency Range Maximum	18 GHz
Power Measurement Range	-32 dBm to +20 dBm
Maximum Continuous Input Power	+20 dBm (100 mW)
Maximum Peak Input Power	+24 dBm (250 mW) for ≤ 1 μs duration

Sensor Technology & Architecture

Sensor Detection Type	Diode detector
Rise Time	< 10 ns
Minimum Pulse Width	50 ns

RF Port Characteristics

Input Impedance	50 Ω nominal
RF Connector Type	Type-N
Connector Sex	Male
Maximum SWR (20 MHz to 2 GHz)	1.25
Maximum SWR (2 GHz to 12.4 GHz)	1.35
Maximum SWR (12.4 GHz to 18 GHz)	1.45

Meter Compatibility & System Integration

Compatible Power Meter Models	HP 8990A, HP 8991A, HP 8992A Peak Power Analyzers
Calibration Factor Storage Type	Internal EEPROM (automatically uploaded to analyzer)

Environmental Parameters

Storage Temperature Range	-40 °C to +75 °C
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Environmental

Operating Humidity	Up to 95% RH at 40 °C (non-condensing)
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Performance

Video Bandwidth	10 MHz
System Rise Time	< 35 ns (with 8990A/8991A)

TECHNOLOGY

Diode Detector

APPLICATIONS

Pulsed RF and microwave peak power analysis

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