

KEYSIGHT TECHNOLOGIES (AGILENT HP)

V8486A

The Keysight Technologies (formerly Agilent HP) V8486A is a high-performance V-band waveguide power sensor designed for precise average power measurements from 50 GHz to 75 GHz. Utilizing a sensitive diode power-sensing element, it provides a measurement range from -30 dBm to +20 dBm. It features an exceptionally low VSWR of 1.06 to minimize mismatch uncertainty, a 50 MHz calibration port, and calibration traceability to the US National Institute of Standards and Technology (NIST). It is highly compatible with Keysight/Agilent EPM, EPM-P, and P-series power meters, as well as several legacy meters.

SPECIFICATIONS

General

Interfaces	Keysight/Agilent 8480-series multi-pin sensor cable interface; Type-N (male) connector for 50 MHz calibration port
Display	None (results displayed via connected power meter)

Physical

Power Supply	Host-powered via compatible power meter
Operating Temperature	0 to 55 °C °C

Measurement Performance

Frequency Range	50 GHz to 75 GHz
Power Measurement Range	-30 dBm to +20 dBm (1 µW to 100 mW)

RF Interface and Impedance

RF Input Connector Type	UG-385/U waveguide flange (WR-15 waveguide)
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Accuracy and Calibration

Calibration Port Frequency	50 MHz
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System Compatibility

Compatible Power Meters	Keysight EPM, EPM-P, P-series, E1416A VXI, 70100A, and 43X series
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RF Specifications

Flange Type	UG-385/U
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RF Input

Waveguide Size	WR-15
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Connectivity

Calibration Port Connector Type	Type-N (male)
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TECHNOLOGY

Diode Power Sensing

APPLICATIONS

RF & 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.