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Data Sheet

August 12, 2026

HEWLETT PACKARD

Hewlett Packard 8447F OPT H64 Amplifier, 9 kHz-1300 MHz

The Hewlett Packard 8447F OPT H64 is a wideband amplifier designed for use in various RF and microwave applications. It operates from 9 kHz to 1300 MHz, providing a stable gain with a low noise figure. This amplifier is suitable for increasing signal strength in test setups, communication systems, and general laboratory use.



MODEL

**Hewlett Packard
8447F OPT H64**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8447F OPT H64

LISTING

<https://aumictechlabs.com/products/8447f-opt-h64-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Hewlett Packard 8447F OPT H64 is a dual-channel wideband preamplifier designed for RF and microwave signal conditioning across extended frequency ranges. Built on thin-film hybrid integrated circuits with solid-state power supply architecture, this instrument delivers low-noise amplification with flat frequency response suitable for laboratory, test, and communication system integration. The OPT H64 configuration provides two independent preamplifiers with distinct frequency coverage and gain characteristics, enabling flexible signal processing from 9 kHz to 1300 MHz.

Technical Specifications

Preamplifier 1 (Low Frequency)

Frequency Range: 9 kHz to 50 MHz

Minimum Gain: 26 dB

Gain Flatness: ± 2 dB

Preamplifier 2 (High Frequency)

Frequency Range: 100 kHz to 1300 MHz

Minimum Gain: 25 dB

Gain Flatness: ± 1.5 dB

General Specifications

Impedance: 50 Ω Input VSWR (1 to 1300 MHz): <2.0:1 Output VSWR (1 to 1300 MHz): <2.2:1
Maximum DC Input Voltage: ± 10 V Group Delay Variation: Typically <0.15 ns over any 50 MHz
band (0.1–1300 MHz) Power Requirements: 115 or 230 Vac $\pm 10\%$, 48 to 440 Hz, 15 W, 27 VA max
Operating Temperature: 0°C to +55°C Storage Temperature: -40°C to +75°C Connector: Type-N
Female Weight: 3 lbs. 14 oz. (1.75 kg) Dimensions: 8.5 $\times$ 5.125 $\times$ 3.375 inches (216 $\times$ 130 $\times$ 85.8
mm)Key Features Dual-preamplifier configuration for simultaneous low and high frequency
operation Thin-film hybrid construction ensures reliability and performance stability Solid-state
power supply eliminates transformer requirements Type-N connectors provide standard RF
integration Benchtop instrument with optional rack-mount capability via adapter frameTypical
Applications RF/microwave signal measurement and detection Sensitivity enhancement for
spectrum analysis Low-frequency and wideband signal conditioning Test and measurement
system front-end amplificationCompatibility & Integration The two internal preamplifiers operate
independently or in cascade configuration, allowing flexible implementation across diverse
measurement architectures.

Features & description

From manufacturer datasheet

Features

- Option H64 dual-preamplifier configuration (not the standard preamp+power-amp 8447F) • Type-N front-panel RF connectors • Hermetically sealed thin-film hybrid amplifiers • Two independently accessible amplifier paths • General-purpose AC-powered benchtop amplifier

Applications

- Improve spectrum analyzer / receiver sensitivity • Overcome systematic RF cable and fixture losses • Low-frequency (from 9 kHz) through VHF/UHF preamplification • Separate or staged use of the two front-panel amplifier paths

8447FOPTH64 Characteristics / Specifications

PARAMETER	VALUE
Model	8447F OPT H64
Manufacturer	Hewlett Packard
Instrument Type	Wideband Dual Preamplifier
Alias	8447F H64; HP 8447F Option H64
Preamp 1 frequency range	9 kHz to 50 MHz
Preamp 1 mean gain 20 to 30 C	26 dB minimum
Preamp 2 frequency range	100 kHz to 1300 MHz
Preamp 2 mean gain 20 to 30 C	25 dB minimum
Gain flatness across frequency range	+/-1.5 dB
Noise figure class	less than 8.5 dB (preamp family tables)
Connectors	Type-N
Power requirements class	110 or 230 VAC +/-10%, 48 to 440 Hz, about 15 W Related standard 8447F non-H64 (for comparison only if faceplate is standard F)
Standard preamp band	100 kHz to 1.3 GHz
Standard preamp mean gain	25 dB minimum
Standard power amp mean gain	22 dB +/-2.0 dB
Standard cascade gain	47 dB Notes Option H64 specs from HP 8447D/E/F and 8447F H64 Operation and Service Manual. Confirm Option H64 labeling and both amplifier sections on the unit; do not assume standard 8447F cascade ratings if H64 is fitted.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Instrument Type	Wideband Dual Preamplifier
Alias	8447F H64; HP 8447F Option H64

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Preamp 1 mean gain 20 to 30 C: 26 dB minimum
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Related standard 8447F non-H64 (for comparison only if faceplate is standard F)

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.