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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 8447F H64 Amplifier

The Keysight 8447F H64 is a solid-state amplifier designed for bench-top testing. Featuring a frequency range of 0.01 to 1300 MHz, a nominal gain of 25 dB, and a low noise figure, this amplifier enhances signal levels for accurate measurements in various RF and microwave applications. Ideal for increasing signal strength in testing setups.

**MODEL****Keysight / Agilent /
HP 8447F H64****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****8447F H64****LISTING**[https://aumictechlabs.c
om/products/8447f-h6
4-2/](https://aumictechlabs.com/products/8447f-h64-2/)

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This unit

The Keysight/Agilent/HP 8447F H64 is a dual-channel preamplifier system designed for RF and microwave signal enhancement in benchtop measurement applications. This wideband amplifier combines two independent preamplifiers with Type-N connectors to deliver gain up to 47 dB when cascaded, making it ideal for improving measurement sensitivity and boosting signal levels across a broad frequency spectrum. Technical Specifications The 8447F H64 encompasses two distinct preamplifier stages optimized for different frequency bands. Preamplifier 1 covers 9 kHz to 50 MHz with 26 dB minimum gain and ± 2 dB gain flatness. Preamplifier 2 extends coverage to 0.01 to 1300 MHz with 25 dB minimum gain and ± 1.5 dB flatness. Overall system impedance is 50 Ohms with ± 1.5 dB gain flatness across the full operating range. Noise figure performance remains consistent below 8.5 dB across all frequency bands from 9 kHz through 1300 MHz. Output power at 1 dB gain compression exceeds +7 dBm from 0.1 to 1300 MHz, with typical

performance reaching +15 dBm from 0.1 to 1000 MHz. Harmonic distortion maintains <-60 dB performance at specified output levels. Input and output VSWR performance varies by band: 9 kHz to 50 MHz exhibits $<2.0:1$ input and $<2.2:1$ output impedance; 1 MHz to 1300 MHz maintains $<2.0:1$ input and $<2.2:1$ output. Reverse isolation exceeds 40 dB. Maximum DC input voltage is +10 V. Risetime is 400 ps (Preamplifier 1) and 420 ps (Preamplifier 2). Group delay variation over any 50 MHz band from 0.1–1300 MHz measures typically <0.15 ns to 40 dB protects connected equipment Typical Applications Counter and spectrum analyzer sensitivity enhancement Signal source output power amplification Wideband RF measurement and characterization Preamplification for low-level signal detection Compatibility & Integration The 8447F H64 integrates with RF measurement systems requiring dual-channel gain flexibility across the VLF through microwave bands. Compatible with 50-ohm test equipment and measurement instruments.

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

8447FH64 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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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

Specifications

PARAMETER	VALUE
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)

Specifications

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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.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.