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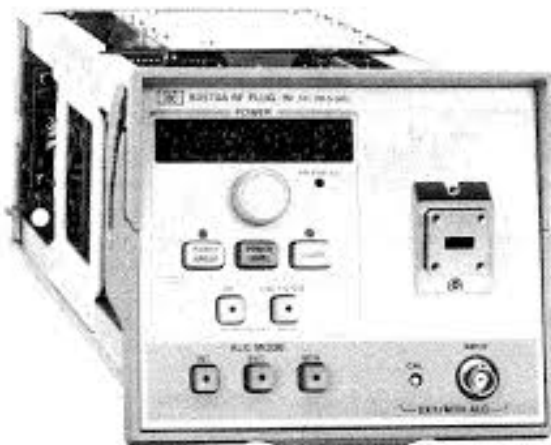
Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83570A RF plug-in for 8350A/B, 18.0-26.5 GHz

The HP 83570A RF plug-in for the 8350-series mainframe covers 18 to 26.5 GHz using a 9.0 to 13.25 GHz YIG-tuned oscillator driving a frequency doubler. Internally leveled output is at least +10 dBm (10 mW), comparable to BWO sources of the era. The RF port is WR-42 waveguide; an auxiliary coaxial output provides the 9 to 13.25 GHz fundamental for counters and phase-lock accessories. Power is adjustable and HP-IB programmable over a 10 dB range. K-band swept and CW stimulus; scalar measurements 18 to 26.5 GHz; waveguide component test; use of the auxiliary fundamental output for frequency counting without a K-band counter. Related Higher Coax: 83595A to 26.5 GHz APC 3.5 Doubler Topology: dual gate FET full wave rectifier class Power Meter Leveling Compatible: 432A/B/C 436A 438A family Rows from HP Journal Feb 1982 (83570A RF design) and 8350-series catalog summaries. Confirm waveguide flange condition and auxiliary connector presence on the specific unit.



MODEL

**HP / Agilent
83570A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83570A

LISTING

<https://aumictechlabs.com/products/83570a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 83570A is an RF plug-in module for the 8350A/B sweep oscillator mainframe, delivering signal generation across the 18.0–26.5 GHz band. This all solid-state unit has internally leveled output power for precision RF and microwave testing, including component

characterization, circuit validation, and system integration tasks. Technical Specifications
Frequency Range 18.0 GHz to 26.5 GHz Output Power Minimum leveled output: +10 dBm Internal leveling with flatness specification Operating Temperature (Mainframe) 0 to 55 °C Physical Weight: 3 lbs Key Features Modulation Capability (8350B Mainframe) Internal square-wave modulation at 1 kHz or 27.8 kHz with >30 dB on/off ratio. External AM modulation supports 15 dB control range and 1 dB/V sensitivity with 100 kHz frequency response. Pulse modulation accommodates rise/fall times ≤ 50 ns and minimum pulse widths ≤ 5 μ s (internally leveled) or ≤ 200 ns (unleveled). External FM accepts ± 75 MHz deviation (DC–100 Hz), ± 7 MHz (100 Hz–1 MHz), and ± 1 MHz (1–2 MHz). Marker and Display Five independent, continuously variable markers with marker sweep function. High-resolution digital displays. Save/recall registers store up to nine front-panel states. Control Interface HP-IB (IEEE-488) programmability via the 8350B mainframe enables remote control and automation. Compatibility & Integration Designed exclusively for HP/Agilent 8350A/B sweep oscillator mainframes. The 8350 platform accepts multiple 83500 Series RF plug-ins for frequency and power configurations. HP 86200 Series plug-ins integrate via the HP 11869A adapter.

Features & description

From manufacturer datasheet

Features

- 18 to 26.5 GHz doubled YTO architecture
- Minimum leveled output +10 dBm (10 mW)
- WR-42 waveguide RF output
- Auxiliary output 9.0 to 13.25 GHz
- Internally leveled; about 10 dB programmable power range
- Frequency accuracy about 30 MHz; linearity about 0.1 percent class

83570A Characteristics / Specifications

PARAMETER	VALUE
Model	83570A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Sweep oscillator RF plug-in (requires 8350-series mainframe)
Frequency Range	18 to 26.5 GHz
YTO Fundamental Range	9.0 to 13.25 GHz
Maximum Leveled Power	+10 dBm (10 mW)
Programmable Power Range	about 10 dB
Frequency Accuracy	about 30 MHz
Linearity Class	0.1 percent
RF Output Connector	WR 42 waveguide
Auxiliary Output	9.0 to 13.25 GHz fundamental
Internal Leveling	yes
External Leveling Modes	crystal or power meter family modes
HP IB Programmability	power level and plug-in functions
Mainframe Compatibility	8350A/8350B series
Harmonic Architecture	frequency doubler from YTO
Fundamental Feedthrough Reduction	waveguide output assists suppression
Operating Temperature With Mainframe	0 to 55 C class
Alias	HP 83570A; Agilent 83570A
Related Lower Band Coax	83590/83592 family to 20 GHz
Related Higher Coax	83595A to 26.5 GHz APC 3.5
Doubler Topology	dual gate FET full wave rectifier class
Power Meter Leveling Compatible	432A/B/C 436A 438A family
Operating temperature	With Mainframe: 0 to 55 C class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Power Meter Leveling Compatible	432A/B/C 436A 438A family Notes Rows from HP Journal Feb 1982 (83570A RF design) and 8350-series catalog summaries. Confirm waveguide flange condition and auxiliary connector presence on the specific unit.

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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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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30-day returns
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Generated August 13, 2026

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