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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83525A RF plug-in for 8350A/B, 0.01-8.4 GHz

The HP 83525A covers 10 MHz (0.01 GHz) to 8.4 GHz in the 8350-series mainframe by automatically PIN-switching a heterodyne low band (0.01 to 2.1 GHz) with a 2 to 8.4 GHz YIG oscillator high band. A 0.1 GHz overlap around the switch point supports smooth narrowband sweeps. Output is at least +13 dBm with internal leveling flatness about plus/minus 1 dB. Crystal markers are available below 2 GHz. Broadband RF/microwave scalar testing to 8.4 GHz; swept amplifier/filter characterization; CW stimulus; ATE with programmable power sweep and slope. Internal Square Wave On Off: greater than or equal to 30 dB (greater than 40 dB above 2 GHz) Pulse Modulation High Band Rise Fall Typical: 20 ns Related Low Harmonics Sibling: 83525B +10 dBm with greater than 45 dBc harmonics 2 to 8.4 GHz Specs from HP 8350-series catalog for 83525A/B. Do not apply 83525B harmonic or +10 dBm power rows to an 83525A without confirmation. Verify Option 002/004.



MODEL

**HP / Agilent
83525A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83525A

LISTING

<https://aumictechlabs.com/products/83525a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 83525A is an RF plug-in module for the 8350A/B sweep oscillator mainframe, delivering signal generation across 0.01 to 8.4 GHz. This dual-band instrument combines wide

frequency coverage with leveled output control, internal crystal markers, and full HP-IB programmability to support RF testing, device characterization, and precision frequency measurements. Technical Specifications Frequency Range: 0.01 to 8.4 GHz (10 MHz to 8.4 GHz) – Lower Band: 0.01 to 2.1 GHz – Upper Band: 2.0 to 8.4 GHz – Band switch point: 2.0–2.1 GHz with 80 dB with Option 002 (70 dB attenuator) – Power level accuracy: ± 1.5 dB – Output flatness: ± 1 dB (lower band) Frequency Accuracy (25°C): ± 12 MHz across full band Sweep Performance: – Minimum sweep time (full band): 17 ms – Power sweep capability for single-test response measurements Crystal Markers: Internal 10 MHz and 50 MHz markers (below 2 GHz) – 1 MHz marker width: ± 100 kHz – 10 MHz marker width: ± 200 kHz – 50 MHz marker width: ± 300 kHz – LED indicator for marker coincidence Frequency Reference Output: 1 V/GHz nominal; 10 mV rear panel BNC output Key Features Dual-band architecture with automatic switching for continuous 0.01–8.4 GHz coverage Leveled power output with slope compensation for high-frequency loss mitigation External marker input for amplitude or Z-axis marking synchronized to sweep frequency HP-IB programmable with 0.1 dB front panel digital resolution for power setting Compatible with HP 8755 Swept Frequency Response Test Set for enhanced measurement capability Typical Applications RF device characterization, frequency response testing, swept-frequency measurements, and precision calibration across microwave bands. Compatibility & Integration Designed as a direct plug-in for HP/Agilent 8350A/B mainframes. Full remote control via HP-IB interface. Internal crystal frequency references and external marker inputs enable integration with legacy and modern test systems.

Features & description

From manufacturer datasheet

Features

- 0.01 to 8.4 GHz with automatic band switching
- Low band 0.01 to 2.1 GHz; high band 2.0 to 8.4 GHz; switch near 2.0 to 2.1 GHz
- +13 dBm leveled power; flatness about plus/minus 1 dB
- Low-band accuracy plus/minus 5 MHz; upper-band accuracy plus/minus 8 MHz
- Crystal markers 1/10/50 MHz below 2 GHz (1 MHz below 1 GHz)
- Option 002 70 dB attenuator; complete HP-IB control

83525A Characteristics / Specifications

PARAMETER	VALUE
Model	83525A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Sweep oscillator RF plug-in (requires 8350-series mainframe)
Frequency Range	0.01 to 8.4 GHz
Low Band	0.01 to 2.1 GHz
High Band	2.0 to 8.4 GHz
Internal Band Switch Point	2.0 to 2.1 GHz
Full Band Switch Discontinuity Typical	less than 8 MHz
Maximum Leveled Power	+13 dBm
Internal Leveling Flatness	plus/minus 1 dB
Low Band CW Accuracy	plus/minus 5 MHz
High Band CW Accuracy	plus/minus 8 MHz
Full Band Linearity	plus/minus 3 MHz
Low Band Linearity	plus/minus 2 MHz
Power Level Accuracy	within 1.5 dB
Power Display Resolution	0.1 dB
Power Programmable Resolution	0.02 dB
Calibrated Power Range Typical	15 dB; greater than 80 dB with Option 002
Power Sweep Calibrated Range	15 dB
Minimum Sweep Time Full Band	17 ms
Crystal Markers Below 2 GHz	10 and 50 MHz; 1 MHz below 1 GHz
RF Output Connector	TypeNfemale
Frequency Reference Output	1 V/GHz nominal; plus/minus 10 mV
Net Weight	4.5 kg (10 lb)
Shipping Weight	7.7 kg (17 lb)

PARAMETER	VALUE
Internal Square Wave On Off	greater than or equal to 30 dB (greater than 40 dB above 2 GHz)
Pulse Modulation High Band Rise Fall Typical	20 ns
Related Low Harmonics Sibling	83525B +10 dBm with greater than 45 dBc harmonics 2 to 8.4 GHz
Alias	HP 83525A; Agilent 83525A

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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PARAMETER	VALUE
Model	83525A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Sweep oscillator RF plug-in (requires 8350-series mainframe)
Frequency Range	0.01 to 8.4 GHz
Low Band	0.01 to 2.1 GHz
High Band	2.0 to 8.4 GHz
Internal Band Switch Point	2.0 to 2.1 GHz
Full Band Switch Discontinuity Typical	less than 8 MHz
Maximum Leveled Power	+13 dBm
Internal Leveling Flatness	plus/minus 1 dB
Low Band CW Accuracy	plus/minus 5 MHz
High Band CW Accuracy	plus/minus 8 MHz
Full Band Linearity	plus/minus 3 MHz
Low Band Linearity	plus/minus 2 MHz
Power Level Accuracy	within 1.5 dB
Power Display Resolution	0.1 dB
Power Programmable Resolution	0.02 dB
Calibrated Power Range Typical	15 dB; greater than 80 dB with Option 002
Option 002: programmable 70 dB step attenuator (10 dB steps)	
Specifications	
PARAMETER	VALUE
Power Sweep Calibrated Range	15 dB
Minimum Sweep Time Full Band	17 ms
Crystal Markers Below 2 GHz	10 and 50 MHz; 1 MHz below 1 GHz
RF Output Connector	TypeNfemale

PARAMETER	VALUE
Frequency Reference Output	1 V/GHz nominal; plus/minus 10 mV
Net Weight	4.5 kg (10 lb)
Shipping Weight	7.7 kg (17 lb)
Internal Square Wave On Off	greater than or equal to 30 dB (greater than 40 dB above 2 GHz)
Pulse Modulation High Band Rise Fall Typical	20 ns
Related Low Harmonics Sibling	83525B +10 dBm with greater than 45 dBc harmonics 2 to 8.4 GHz
Alias	HP 83525A; Agilent 83525A

Notes

Specs from HP 8350-series catalog for 83525A/B. Do not apply 83525B harmonic or +10 dBm power rows to an 83525A without confirmation. Verify Option 002/004.

Ordering Information

OPTION	DESCRIPTION
Option 002	70 dB attenuator; complete HP-IB control

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.