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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83522A RF plug-in for 8350A/B, 0.01-2.4 GHz

The HP 83522A is a single-band RF plug-in for the 8350-series sweep oscillator covering 10 MHz (0.01 GHz) to 2.4 GHz with a heterodyne circuit. It maintains plus/minus 5 MHz CW frequency accuracy and plus/minus 2 MHz linearity over the full band while delivering at least +13 dBm internally leveled to about plus/minus 0.25 dB flatness. Crystal harmonic markers (1/10/50 MHz) aid precise frequency identification. RF scalar network analysis; broadband filter/amplifier swept tests to 2.4 GHz; CW stimulus; noise-figure and phase-lock applications with compatible HP accessories. Frequency Reference Output: 1 V/GHz nominal; plus/minus 10 mV Internal Square Wave On Off: greater than or equal to 30 dB Harmonics At Or Below 10 mW Class: greater than 25 dBc suppression class Specs from HP 8350-series catalog pages for 83522A/83525A/B. Confirm Option 002/004 on the unit. Use 27.8 kHz square-wave mode with HP scalar analyzers that require it.



MODEL

**HP / Agilent
83522A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83522A

LISTING

<https://aumictechlabs.com/products/83522a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 83522A is an RF plug-in module for the 8350A/B sweep oscillator mainframe, delivering signal generation across 0.01 to 2.4 GHz. This unit combines internally leveled output

with precise frequency control, crystal marker capability, and full HP-IB programmability for automated test environments. Output power flatness of ± 0.25 dB across the entire band ensures consistent performance in network analysis and RF characterization workflows.

Technical Specifications

Frequency Range: 0.01 to 2.4 GHz (10 MHz to 2.4 GHz) Frequency Accuracy: CW Mode: ± 1.5 MHz typical Sweep Modes: ± 2 MHz typical Line Voltage Stability (10% change): ± 20 kHz typical Power Level Stability (10 dB change): ± 100 kHz typical Load SWR Stability (3:1): ± 110 kHz typical Time Stability (10 min after 1-hour warmup): ± 100 kHz typical Output Power: Maximum leveled output: ≥ 13 dBm Calibrated power range: 15 dB typical Extended range to > 80 dB with Option 002 (70 dB attenuator) Power level accuracy: ± 1 dB Output flatness: ± 0.25 dB over full range Front panel resolution: 0.1 dB HP-IB remote resolution: 0.02 dB Power sweep capability: 15 dB range Markers: Crystal markers at 10 or 50 MHz intervals across full range 1 MHz harmonic markers below 1 GHz 1 MHz marker width: ± 100 kHz 10 MHz marker width: ± 200 kHz 50 MHz marker width: ± 300 kHz External marker input for amplitude or Z-axis modulation LED indicator for marker coincidence detection Sweep & Modulation: Minimum sweep time over full band: 10 ms Slope mode compensation for cable and test set losses

Key Features

HP-IB (IEEE-488) full programmability for external control Internally leveled output with ± 0.25 dB flatness Multiple marker configurations for flexible calibration Power sweep function for level-sensitive device characterization Compatibility & Integration Designed for HP 8350A/B mainframes. Direct compatibility with HP 8756A/8757A Scalar Network Analyzers and HP 8510/8410C network analyzers.

Features & description

From manufacturer datasheet

Features

- Continuous 0.01 to 2.4 GHz sweep (single band)
- +13 dBm leveled power; flatness about plus/minus 0.25 dB
- CW accuracy plus/minus 5 MHz; linearity plus/minus 2 MHz
- Crystal markers 1 MHz (below 1 GHz), 10 MHz and 50 MHz full range
- Option 002 70 dB step attenuator extends calibrated range to greater than 80 dB class
- Complete HP-IB programmability of power modes and markers

83522A Characteristics / Specifications

PARAMETER	VALUE
Model	83522A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Sweep oscillator RF plug-in (requires 8350-series mainframe)
Frequency Range	0.01 to 2.4 GHz
Maximum Leveled Power	+13 dBm
Internal Leveling Flatness	plus/minus 0.25 dB
CW Frequency Accuracy	plus/minus 5 MHz
Frequency Linearity	plus/minus 2 MHz
Sweep Mode Accuracy Class	plus/minus 15 MHz
Power Level Accuracy	within 1 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
Power Sweep Accuracy Including Linearity	plus/minus 1.5 dB
Slope Compensation Range	up to 5 dB/GHz
Minimum Sweep Time Full Band	10 ms
Crystal Markers	1 MHz below 1 GHz; 10 and 50 MHz full range
Crystal Marker Center Accuracy At 25 C	plus/minus 5e-6
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)
Internal Square Wave On Off	greater than or equal to 30 dB
Source Impedance	50 ohm nominal

PARAMETER	VALUE
Harmonics At Or Below 10 mW Class	greater than 25 dBc suppression class
Alias	HP 83522A; Agilent 83522A

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	83522A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Sweep oscillator RF plug-in (requires 8350-series mainframe)
Frequency Range	0.01 to 2.4 GHz
Maximum Levelled Power	+13 dBm
Internal Leveling Flatness	plus/minus 0.25 dB
CW Frequency Accuracy	plus/minus 5 MHz
Frequency Linearity	plus/minus 2 MHz
Sweep Mode Accuracy Class	plus/minus 15 MHz
Power Level Accuracy	within 1 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
Power Sweep Accuracy Including Linearity	plus/minus 1.5 dB
Slope Compensation Range	up to 5 dB/GHz
Minimum Sweep Time Full Band	10 ms
Crystal Markers	1 MHz below 1 GHz; 10 and 50 MHz full range
Crystal Marker Center Accuracy At 25 C	plus/minus 5e-6
RF Output Connector	TypeNfemale
Frequency Reference Output	1 V/GHz nominal; plus/minus 10 mV
Net Weight	4.5 kg (10 lb)

PARAMETER	VALUE
Shipping Weight	7.7 kg (17 lb)
Internal Square Wave On Off	greater than or equal to 30 dB
Source Impedance	50 ohm nominal
Harmonics At Or Below 10 mW Class	greater than 25 dBc suppression class
Alias	HP 83522A; Agilent 83522A

Notes
Specs from HP 8350-series catalog pages for 83522A/83525A/B. Confirm Option 002/004 on the unit. Use 27.8 kHz square-wave mode with HP scalar analyzers that require it.

Ordering Information

OPTION	DESCRIPTION
Option 002	70 dB step attenuator extends calibrated range to greater than 80 dB class

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

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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.