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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83545A RF plug-in for 8350A/B, 5.9-12.4 GHz

The HP 83545A RF plug-in for the 8350B provides 5.9 to 12.4 GHz broadband coaxial swept coverage with frequency accuracy plus/minus 20 MHz. Published power range is +2 dBm to +17 dBm (50 mW class maximum), with 0.1 dB displayed power resolution and 10 ms minimum sweep time. C/X-band scalar network analysis; LO for down-conversion; stand-alone swept CW source in 8350B; production microwave ATE. Manufacturer: Hewlett Packard / Agilent / Keysight Instrument Type: Sweep oscillator RF plug-in (requires 8350B) Alias: HP 83545A; Agilent 83545A; Keysight 83545A Output Power Resolution Displayed: 0.1 dB



MODEL

**HP / Agilent
83545A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83545A

LISTING

<https://aumictechlabs.com/products/83545a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 83545A is an RF plug-in module for the 8350A/B sweep oscillator mainframe that extends signal generation capability into the 5.9 GHz to 12.4 GHz microwave band. It delivers internally leveled output with power variations under 0.6 dB, supporting scalar network analysis, component testing, and local oscillator applications requiring precision RF signal generation across the X-band and lower Ku-band spectrum. Technical Specifications Frequency Range: 5.9 GHz to 12.4 GHz Output Power: Typically +2 dBm to +17 dBm; internally leveled to at least +17

dBm with power variations less than 0.6 dB. Power resolution: 0.1 dB displayed. Frequency Accuracy: ± 20 MHz Sweep: Minimum sweep time 10 ms. Power sweep function available for response measurements. Modulation: Internal AM selectable to 27.8 kHz or 1 kHz. External AM/FM capabilities deferred to RF unit specifications. Programmability: Complete HP-IB control of all front panel functions (except AC line power switch) on 8350B mainframe. Signal Performance: Slope compensation provided. Key Features High output power capability with internal leveling for repeatable measurements Fast 10 ms minimum sweep time for efficient signal characterization Dual AM modulation frequencies for flexible test scenarios Full HP-IB remote programming on compatible mainframes Laboratory-verified performance extending to +22 dBm Typical Applications Scalar network analysis across X and lower Ku bands Microwave component characterization and testing Local oscillator for high-frequency signal down-conversion RF system validation and bench measurements Compatibility & Integration Requires HP/Agilent 8350A or 8350B sweep oscillator mainframe. The 83545A operates as a plug-in module within these platforms. Optional 002 step attenuator (70 dB) and 004 rear panel RF output connector available. An HP 11869A adapter enables interface with HP 86200 series plug-ins.

Features & description

From manufacturer datasheet

Features

- 5.9 to 12.4 GHz coaxial plug-in for 8350B • Output power range +2 to +17 dBm • Frequency accuracy plus/minus 20 MHz • 0.1 dB power display resolution • 10 ms minimum sweep time

83545A Characteristics / Specifications

PARAMETER	VALUE
Model	83545A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Alias	HP 83545A; Agilent 83545A; Keysight 83545A
Frequency Range	5.9 GHz to 12.4 GHz
Frequency Accuracy	plus/minus 20 MHz
Output Power Range	+2 dBm to +17 dBm
Maximum Power Class	50 mW (+17 dBm)
Output Power Resolution Displayed	0.1 dB
Minimum Sweep Time	10 ms
Internal Leveling	yes
Mainframe Compatibility	8350B
Related Lower Band	83540A 2.0 to 8.4 GHz
Related High Power Driver	83550A 8 to 20 GHz
Related Broadband	83592/83594 family
RF Output Connector Family	TypeNfemale class
Power Programmable Resolution Family	0.01 dB via HP-IB
External Leveling Modes Family	crystal or power meter
HP IB Programmability	power and plug-in functions via 8350
Operating Temperature With Mainframe	0 to 55 C class
Power Sweep Family	calibrated power sweep on 8350 plug-ins
Slope Compensation Family	available
Applications Class	scalar NA; LO; CW/swept source
Operating temperature	With Mainframe: 0 to 55 C class

83545A Specifications

PARAMETER	VALUE
Applications	C/X-band scalar network analysis; LO for down-conversion; stand-alone swept CW source in 8350B; production microwave ATE.
Key Features	- 5.9 to 12.4 GHz coaxial plug-in for 8350B
Technical Specifications	Model: 83545A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	With Mainframe: 0 to 55 C class
Operating Temperature	With Mainframe: 0 to 55 C class
Operating Temperature With Mainframe	0 to 55 C class
Power Sweep Family	calibrated power sweep on 8350 plug-ins
Slope Compensation Family	available
Applications Class	scalar NA; LO; CW/swept source Notes Rows from HP 83545A product literature and 83522A/83540A/83545A/83550A/83594A family datasheet references. Confirm leveled flatness and harmonic rows on the specific datasheet revision before metrology use.

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	
Specifications	
PARAMETER	VALUE
Model	83545A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Alias	HP 83545A; Agilent 83545A; Keysight 83545A
Frequency Range	5.9 GHz to 12.4 GHz
Frequency Accuracy	plus/minus 20 MHz
Output Power Range	+2 dBm to +17 dBm
Maximum Power Class	50 mW (+17 dBm)
Output Power Resolution Displayed	0.1 dB
Minimum Sweep Time	10 ms
Internal Leveling	yes
Mainframe Compatibility	8350B
Related Lower Band	83540A 2.0 to 8.4 GHz
Related High Power Driver	83550A 8 to 20 GHz
Related Broadband	83592/83594 family
RF Output Connector Family	TypeNfemale class
Power Programmable Resolution Family	0.01 dB via HP-IB
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Rows from HP 83545A product literature and 83522A/83540A/83545A/83550A/83594A family datasheet references. Confirm leveled flatness and harmonic rows on the specific datasheet revision before metrology use.	

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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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.