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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83595A RF plug-in provides a 10 MHz to 26.5 GHz broadband coaxial swept

The HP 83595A is a broadband coaxial RF plug-in for the 8350B covering 10 MHz (0.01 GHz) to 26.5 GHz in a single sweep using switched YIG-tuned multiplier (SYTM) technology. Catalog accuracy at 26.5 GHz is on the order of plus/minus 12 MHz. Maximum leveled power is about +4 dBm with minimum settable -5 dBm (-60 dBm with Option 002 55 dB attenuator). RF output is APC-3.5 male. Broadband scalar and swept measurements to 26.5 GHz; CW stimulus; LO for down-conversion; ATE with HP-IB programmable power and frequency. Internal Square Wave On Off: greater than 30 dB External Pulse Rise Fall Typical: 15 ns low band; 10 ns high band to 26.5 GHz Stability With Temperature Class: about 200 kHz/C order (family) Rows from HP 8350B / 83590-series catalog and reseller OEM summaries for 83595A. Band-by-band power tables on the military/TB sheets for 83592A must not be copied onto 83595A. Confirm Option 002 and connector gender on the unit.



MODEL

**HP / Agilent
83595A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83595A

LISTING

<https://aumictechlabs.com/products/83595a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 83595A is a broadband coaxial swept frequency source plug-in for the Agilent 8350B mainframe, delivering 10 MHz to 26.5 GHz coverage across five bands. This RF source

excels in scalar network analysis, local oscillator applications, and standalone signal generation, combining wide frequency sweep capability with narrowband precision tuning. Technical Specifications Frequency Coverage Range: 10 MHz to 26.5 GHz (five bands: 10 MHz–2.4 GHz, 2.4–7 GHz, 7–13.5 GHz, 13.5–20 GHz, 20–26.5 GHz) CW accuracy: ± 5 MHz (Bands 0–1); ± 10 MHz (Band 2–3); ± 12 MHz (Band 4) Sweep accuracy: ± 15 to ± 50 MHz depending on band and sweep width Frequency marker accuracy: ± 15 to ± 50 MHz, $\pm 0.5\%$ of sweep width (band-dependent) Temperature stability: ± 200 to ± 800 MHz/ $^{\circ}\text{C}$ (typical, band-dependent) Output Power Maximum leveled power: 10 mW (Bands 0–3); 2.5 mW (Band 4) Power accuracy: ± 1.3 to ± 1.8 dB (band-dependent) Minimum settable power: -5 dBm standard; -60 dBm with Option 002 Maximum output level: $+4$ dBm Resolution: 0.1 dB displayed; 0.01 dB programmable Harmonics and subharmonics: < -25 dBc (Bands 0–3); < -20 dBc (Band 4) Sweep Performance Minimum sweep time: 10 ms (single band); 30 ms (full band) Modulation Capability External AM: 100 kHz response, 1 dB/V sensitivity, 15 dB range External FM: ± 75 MHz (DC–100 Hz); ± 7 MHz (100 Hz–1 MHz); ± 5 MHz (1–2 MHz); ± 1 MHz (2–10 MHz); -20 MHz/V sensitivity Phase lock: -6 MHz/V sensitivity External pulse modulation: TTL compatible; 15 nsec rise/fall time (10 MHz–2.5 GHz) Key Features Single-plug coverage from 10 MHz through 26.5 GHz eliminates band-switching complexity Fine frequency resolution and CW accuracy support precision measurement and calibration tasks Integrated leveling maintains constant output across broadband sweeps Multiple modulation modes AM, FM, phase lock, and pulse - enable diverse signal conditioning Low harmonic content < -20 dBc ensures clean spectral characteristics Typical Applications Scalar network analysis across S-parameters Down-converter local oscillator for superheterodyne receivers Stimulus source for broadband RF system characterization Signal generation for component and subsystem testing Compatibility & Integration Operates exclusively as a plug-in module with the Agilent 8350B sweep oscillator mainframe, which provides power, control interface, and display functions.

Features & description

From manufacturer datasheet

Features

- 0.01 to 26.5 GHz single-sweep coaxial coverage
- CW frequency accuracy about plus/minus 12 MHz at 26.5 GHz
- Leveled power range about -5 to +4 dBm (standard)
- Option 002 55 dB step attenuator to about -60 dBm
- Power sweep and slope; internal/external/power-meter leveling
- APC-3.5 male RF output (not Type N)

83595A Characteristics / Specifications

PARAMETER	VALUE
Model	83595A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Frequency Range	0.01 to 26.5 GHz
CW Frequency Accuracy At 26.5 GHz	about plus/minus 12 MHz
Maximum Leveled Power	+4 dBm
Minimum Settable Power	-5 dBm
Minimum Settable Power Option 0	-60 dBm
Power Level Accuracy Class	plus/minus 1.5 dB
Power Display Resolution	0.1 dB
Power Programmable Resolution	0.01 dB
Internal Leveling Flatness Class	within 0.9 dB family
Power Sweep Calibrated Range	greater than 15 dB class (greater than 9 dB with Option 002)
Source Output VSWR	less than 1.9 (50 ohm nominal)
Minimum Sweep Time Single Band	10 ms
Minimum Sweep Time Full Band	30 ms
Auxiliary Output	2.3 to 7.0 GHz fundamental oscillator; nominally 0 dBm
Frequency Reference Output	1 V/GHz or 0.5 V/GHz to 26.5 GHz; plus/minus 25 mV
RF Output Connector	APC 3.5 male
Net Weight	6.0 kg (13.2 lb)
Shipping Weight	9.2 kg (20 lb)
External AM Response Typical	100 kHz; 15 dB; 1 dB/V
Internal Square Wave On Off	greater than 30 dB
External Pulse Rise Fall Typical	15 ns low band; 10 ns high band to 26.5 GHz
Stability With Temperature Class	about 200 kHz/C order (family)

PARAMETER	VALUE
Mainframe Compatibility	8350B
Alias	HP 83595A; Agilent 83595A

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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Option 002 Attenuator: 55 dB step attenuator	
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Notes
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Ordering Information

OPTION	DESCRIPTION
Option 002	55 dB attenuator). RF output is APC-3.5 male.

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.