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Data Sheet

August 13, 2026

HP / AGILENT / KEYSIGHT

HP / Agilent 83592A RF Plug-in for the Keysight 8350B, 10 MHz to 20 GHz High output power

HP 8350B Sweep Oscillator Mainframe with 83592A RF Plug-in, 10 MHz to 20 GHz The HP 8350B is a modular sweep oscillator mainframe that accepts broadband and multi-band RF plug-ins. Paired with the 83592A RF plug-in, the system provides a swept and CW microwave source from 10 MHz (0.01 GHz) to 20 GHz with leveled output, markers, power sweep, and internal/external modulation. This combination was a standard scalar and general-purpose microwave stimulus platform before fully synthesized 8375x sources. Scalar network analysis, broadband filter and amplifier swept testing, CW microwave stimulus, marker-based frequency identification, and ATE systems programmed with 8350-compatible mnemonics. The HP 8350B is a modular sweep oscillator mainframe that accepts broadband and multi-band RF plug-ins. Paired with the 83592A RF plug-in, the system provides a swept and CW microwave source from 10 MHz (0.01 GHz) to 20 GHz with leveled output, markers, power sweep, and internal/external modulation. This combination was a standard scalar and general-purpose microwave stimulus platform before fully synthesized 8375x sources. Scalar network analysis, broadband filter and amplifier swept testing, CW microwave stimulus, marker-based frequency identification, and ATE systems programmed with 8350-compatible mnemonics.



MODEL

**HP / Agilent /
Keysight 83592A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83592A

LISTING

<https://aumictechlabs.com/products/83592a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 83592A is a RF plug-in module for the Keysight 8350B sweep oscillator mainframe, delivering coverage from 10 MHz to 20 GHz across four independently calibrated bands. Engineered for demanding RF and microwave measurements, this module combines wide frequency range with high output power and excellent harmonic suppression below -25 dBc across all bands. Technical Specifications Frequency Performance: Operating range: 10 MHz to 20 GHz across four bands (0.01–2.4 GHz, 2.4–7 GHz, 7–13.5 GHz, 13.5–20 GHz) CW mode accuracy: ± 5 MHz (Bands 0–1), ± 10 MHz (Bands 2–3) at 25°C $\pm 5^\circ\text{C}$ Sweep mode accuracy (>100 ms sweeps): ± 15 –30 MHz depending on band Frequency marker accuracy: ± 15 –30 MHz $\pm 0.5\%$ of sweep width by band Temperature stability: ± 200 kHz/ $^\circ\text{C}$ (Bands 0–1), ± 400 –600 kHz/ $^\circ\text{C}$ (Bands 2–3) Power-change stability: ± 200 –600 kHz for 10 dB power variation Residual FM (10 Hz–10 kHz bandwidth): <5 kHz peak Output Power: Maximum leveled power: 10 mW (standard configuration) Power level accuracy: ± 1.3 –1.5 dB by band Power variation at maximum specified level: ± 0.7 –0.9 dB Spurious signals (harmonics/subharmonics): 12 dB calibrated (>9 dB with Option 002) Output power resolution: 0.1 dB displayed, 0.01 dB programmable Modulation: External AM frequency response: 100 kHz typical AM input range: 0–15 V maximum AM amplitude control: 15 dB typical range AM sensitivity: 1 dB/V typical AM input impedance: 10 Ω Key Features Four independently optimized frequency bands for precision across the full 10 MHz–20 GHz spectrum Harmonic performance <-25 dBc enables clean signal generation for sensitive measurements Dual power output options - standard 10 mW or attenuated configuration (5–7 mW depending on band) External AM modulation with 15 dB control range and 1 dB/V sensitivity Programmable power resolution to 0.01 dB for automated test sequences Typical Applications Scalar network analysis and device characterization Local oscillator for frequency down-conversion in receiver testing Stimulus source for S-parameter and gain measurements across microwave bands Compatibility & Integration Designed as a plug-in module for the Keysight 8350B mainframe. The 8350B provides marker sweep capability, save/recall register memory for front-panel settings, and HP-IB programmability for integration into automated test systems.

Features & description

From manufacturer datasheet

Features

- 8350B mainframe: softkey UI, HP-IB, sweep control, power display
- 83592A plug-in: 0.01 to 20 GHz in four bands plus full band
- Leveled output approximately -5 to +10 dBm (83592A)
- Internal square-wave modulation 1 kHz or 27.8 kHz for scalar analyzers
- External AM, FM, and pulse modulation capability
- Power sweep and power slope; crystal or power-meter external leveling
- Type-N female RF output on 83592A
- Optional step attenuator (Option 002/004 family) for lower leveled power

83592A Characteristics / Specifications

PARAMETER	VALUE
Technical Specifications	83592A RF Plug-in
Model	83592A
Instrument Type	Sweep oscillator mainframe
Operating Temperature	0 to 55 C
Power	100/120/220/240 V +/-10%, 50 to 60 Hz; about 375 VA including RF plug-in
Size	425 mmWx 133.3 mmHx 422 mmDNet Weight (without RF unit): about 16.5 kg (36.4 lb)
Display Resolution (power)	0.1 dB
Minimum Sweep Time	single band 10 ms; full band with 83592A about 25 ms
Frequency Range	0.01 to 20 GHz
Bands	0.01-2.4 GHz; 2.4-7 GHz; 7-13.5 GHz; 13.5-20 GHz; full band 0.01-20 GHz CW Frequency Accuracy (83592A) 0.01 to 7 GHz: +/-5 MHz 7 to 13.5 GHz: +/-10 MHz 13.5 to 20 GHz: +/-15 MHz Swept Frequency Accuracy (examples)
Full band	about +/-50 MHz class; tighter band-limited values per military/TB and datasheet tables Leveled Output Power (83592A)
Range	-5 to +10 dBm
Level accuracy (examples)	about +/-1.5 dB (0.01-2.4 GHz), +/-1.3 dB (2.4-13.5 GHz), +/-1.4 dB (13.5-18.6 GHz class) Internal leveling flatness on the order of +/-0.7 to +/-0.9 dB by band
Minimum settable power	about -5 dBm (lower with step-attenuator option)
RF Connector	Type-N female
Source Output VSWR	less than 1.9 typical (50 ohm)
Internal square wave	1 kHz or 27.8 kHz; on/off greater than 30 dB; symmetry about 40/60

PARAMETER

VALUE

External AM

about 100 kHz response, 15 dB control range, 1 dB/V sensitivity (typical) External pulse and FM per 8350B family datasheets Operational Notes Calibration status of the combined 8350B + 83592A should be verified as a system. Confirm Option 002 attenuator presence if low-level operation is required. Use 27.8 kHz square wave when driving HP scalar network analyzers that expect that rate. Allow adequate warm-up before accuracy-critical CW work.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
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Power	100/120/220/240 V +/-10%, 50 to 60 Hz; about 375 VA including RF plug-in
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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

PARAMETER	VALUE
Specifications	8350B Mainframe
Model	8350B
Instrument Type	Sweep oscillator mainframe
Operating Temperature	0 to 55 C
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Size	425 mmWx 133.3 mmHx 422 mmDNet Weight (without RF unit): about 16.5 kg (36.4 lb)
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Specifications

PARAMETER	VALUE
Technical Specifications	83592A RF Plug-in
Model	83592A
Frequency Range	0.01 to 20 GHz
Bands	0.01-2.4 GHz; 2.4-7 GHz; 7-13.5 GHz; 13.5-20 GHz; full band 0.01-20 GHz

CW Frequency Accuracy (83592A)
0.01 to 7 GHz: +/-5 MHz
7 to 13.5 GHz: +/-10 MHz
13.5 to 20 GHz: +/-15 MHz

Swept Frequency Accuracy (examples)
Full band: about +/-50 MHz class; tighter band-limited values per military/TB and datasheet tables

Leveled Output Power (83592A)
Range: -5 to +10 dBm
Level accuracy (examples): about +/-1.5 dB (0.01-2.4 GHz), +/-1.3 dB (2.4-13.5 GHz), +/-1.4 dB (13.5-18.6 GHz class)
Internal leveling flatness on the order of +/-0.7 to +/-0.9 dB by band

Specifications

PARAMETER	VALUE
Minimum settable power	about -5 dBm (lower with step-attenuator option)

PARAMETER	VALUE
RF Connector	Type-N female
Source Output VSWR	less than 1.9 typical (50 ohm)

Weight (plug-in): about 6.0 kg class

Modulation (Mainframe / Plug-in Family)

Internal square wave: 1 kHz or 27.8 kHz; on/off greater than 30 dB; symmetry about 40/60

External AM: about 100 kHz response, 15 dB control range, 1 dB/V sensitivity (typical)

External pulse and FM per 8350B family datasheets

Operational Notes

Calibration status of the combined 8350B + 83592A should be verified as a system. Confirm Option 002 attenuator presence if low-level operation is required. Use 27.8 kHz square wave when driving HP scalar network analyzers that expect that rate. Allow adequate warm-up before accuracy-critical CW work.

Ordering Information

OPTION	DESCRIPTION
Option 002	attenuator presence if low-level operation is required. Use 27.8 kHz square wave when driving HP scalar network analyzers that expect that rate. Allow adequate

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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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.