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Data Sheet

August 13, 2026

HP / AGILENT / KEYSIGHT

HP / Agilent 83592C RF Plug-in for the Keysight 8350B, 10 MHz to 20 GHz, Low Harmonics

HP 83592C RF Plug-in 0.01 to 20 GHz Low Harmonics The HP 83592C is the low-harmonics member of the 83592 broadband RF plug-in family for the 8350B sweep oscillator. It covers 10 MHz (0.01 GHz) to 20 GHz with SYTM architecture and is specified for -55 dBc harmonics and subharmonics from about 3.5 to 20 GHz (catalog also cites -55 dBc from 2 to 20 GHz in summary text), maximizing dynamic range in scalar and component tests. Scalar network analysis needing clean stimulus; broadband filter/amplifier swept tests; CW microwave source in an 8350B; ATE with full HP-IB power and frequency control. The HP 83592C is the low-harmonics member of the 83592 broadband RF plug-in family for the 8350B sweep oscillator. It covers 10 MHz (0.01 GHz) to 20 GHz with SYTM architecture and is specified for -55 dBc harmonics and subharmonics from about 3.5 to 20 GHz (catalog also cites -55 dBc from 2 to 20 GHz in summary text), maximizing dynamic range in scalar and component tests. Scalar network analysis needing clean stimulus; broadband filter/amplifier swept tests; CW microwave source in an 8350B; ATE with full HP-IB power and frequency control.



MODEL

**HP / Agilent /
Keysight 83592C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83592C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 83592C is an RF plug-in module for the Keysight 8350B sweep oscillator mainframe, delivering low-harmonic signal generation across 10 MHz to 20 GHz. This unit combines broad frequency coverage with precise leveling and minimal spurious output, making it suitable for RF component testing, receiver characterization, and signal generation applications requiring clean spectral performance.

Technical Specifications

Frequency Range: 10 MHz to 20 GHz

Frequency Accuracy (CW Mode): Band 0 (0.01–2.4 GHz): ± 15 MHz Band 1 (2.4–7 GHz): ± 5 MHz Band 2 (7–13.5 GHz): ± 10 MHz Band 3 (13.5–20 GHz): ± 10 MHz

Frequency Stability (Typical): Temperature coefficient: ± 200 kHz/ $^{\circ}\text{C}$ (Band 0–1), ± 400 kHz/ $^{\circ}\text{C}$ (Band 2), ± 600 kHz/ $^{\circ}\text{C}$ (Band 3)

Load SWR (3:1): ± 100 kHz (Band 0–1), ± 200 kHz (Band 2), ± 300 kHz (Band 3)

Output Power: Maximum leveled: 10 mW (Band 0), 4 mW (Bands 1–3) Power range: -60 dBm to $+4$ dBm Minimum settable: -5 dBm (-60 dBm with Option 002)

Level accuracy: ± 1.3 – 1.5 dB across bands

Resolution: 0.01 dB (programmable), 0.1 dB (displayed)

Spurious Signals: Band 0 (0.01–1.5 GHz): $\leftarrow 25$ dBc Bands 1–3: $\leftarrow 45$ dBc typical, $\leftarrow 20$ dBc typical Full band: -55 dBc harmonic and subharmonic levels

Sweep Performance: Minimum sweep time (single band): 10 ms Minimum sweep time (full band): 25–30 ms

Key Features Low harmonic distortion optimizes dynamic range in receiver testing Broadband coverage 10 MHz to 20 GHz in four frequency bands Precision frequency accuracy within ± 5 – 15 MHz (CW mode) Optional 55 dB step attenuator (Option 002) for extended power control Compact plug-in form factor for modular system integration Compatibility & Integration Designed as a dedicated RF plug-in for the Keysight 8350B mainframe. Operates within the 8350B ecosystem for synchronized frequency and amplitude control during swept and fixed-frequency measurements.

Features & description

From manufacturer datasheet

Features

- 0.01 to 20 GHz coverage in four bands plus full band
- Low harmonics/subharmonics class -55 dBc (3.5 to 20 GHz / 2 to 20 GHz per catalog wording)
- Minimum settable power -5 dBm; -60 dBm with Option 002 (55 dB step attenuator)
- Internal leveling within about 0.9 dB; displayed 0.1 dB; programmable 0.01 dB
- Power sweep and slope compensation standard
- TypeNfemale RF; auxiliary fundamental oscillator output 2.3 to 7.0 GHz

83592C Characteristics / Specifications

PARAMETER	VALUE
Model	83592C
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Frequency Range	0.01 to 20 GHz
Band	0.01 to 2.4 GHz
Full Band	0.01 to 20 GHz
Harmonics And Subharmonics 3.5 to 20 GHz	-55 dBc class
Minimum Settable Power	-5 dBm
Minimum Settable Power Option 0	-60 dBm
Power Display Resolution	0.1 dB
Power Programmable Resolution	0.01 dB
Internal Leveling Flatness Class	within 0.9 dB
Power Sweep Calibrated Range	greater than 15 dB (greater than 9 dB with Option 002)
Power Slope Calibrated Range	up to 5 dB/GHz; up to 15 dB full sweep class
Source Output VSWR	less than 1.9 (50 ohm nominal)
Minimum Sweep Time Single Band	10 ms
Minimum Sweep Time Full Band	25 ms
Auxiliary Output	2.3 to 7.0 GHz fundamental oscillator; nominally 0 dBm
Frequency Reference Output	1 V/GHz (to 18 GHz) or 0.5 V/GHz (to 20 GHz); plus/minus 25 mV
RF Output Connector	TypeNfemale
Net Weight	6.0 kg (13.2 lb)
Shipping Weight	9.2 kg (20 lb)
External AM Response Typical	100 kHz; 15 dB control; 1 dB/V
Internal Square Wave On Off	greater than 30 dB; symmetry about 40/60
External Pulse Rise Fall Typical	15 ns (0.01 to 2.5 GHz); 10 ns (2.5 to 20 GHz)

PARAMETER	VALUE
Alias	HP 83592C; Agilent 83592C

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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Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Frequency Range	0.01 to 20 GHz
Band 0	0.01 to 2.4 GHz
Band 1	2.4 to 7 GHz
Band 2	7 to 13.5 GHz
Band 3	13.5 to 20 GHz
Full Band	0.01 to 20 GHz
Harmonics And Subharmonics 3.5 to 20 GHz	-55 dBc class
Minimum Settable Power	-5 dBm
Minimum Settable Power Option 002	-60 dBm
Option 002 Attenuator: 55 dB step attenuator	
Specifications	
PARAMETER	VALUE
Power Display Resolution	0.1 dB
Power Programmable Resolution	0.01 dB
Internal Leveling Flatness Class	within 0.9 dB
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Notes

Specs from HP 8350B / 83590-series catalog pages contrasting 83592C low-harmonics performance with 83592A/B. Exact maximum leveled power by band should be verified on the unit faceplate/cal cert when critical; do not copy 83592B +13 dBm rows onto theCwithout confirmation.

Ordering Information

OPTION	DESCRIPTION
Option 002	(55 dB step attenuator)

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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.