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Data Sheet

August 1, 2026

HP

HP 83592B 10MHz to 20GHz Signal Generator

HP / Agilent 83592B RF Plug-in, 10 MHz to 20 GHz The HP / Agilent 83592B is a broadband RF plug-in for the 8350B sweep oscillator mainframe, covering 10 MHz (0.01 GHz) to 20 GHz. It is the higher-power member of the 83592 family, providing about +13 dBm (20 mW) maximum leveled power on most bands versus the lower-power 83592A. Internally leveled output, power sweep, slope compensation, and full HP-IB programmability support scalar network analysis and general microwave stimulus. Scalar network analysis with 8756/8757 analyzers, broadband swept stimulus, LO for down-conversion, stand-alone CW/swept RF source when installed in an 8350B mainframe, and automated amplifier gain-compression tests. The HP / Agilent 83592B is a broadband RF plug-in for the 8350B sweep oscillator mainframe, covering 10 MHz (0.01 GHz) to 20 GHz. It is the higher-power member of the 83592 family, providing about +13 dBm (20 mW) maximum leveled power on most bands versus the lower-power 83592A. Internally leveled output, power sweep, slope compensation, and full HP-IB programmability support scalar network analysis and general microwave stimulus. Scalar network analysis with 8756/8757 analyzers, broadband swept stimulus, LO for down-conversion, stand-alone CW/swept RF source when installed in an 8350B mainframe, and automated amplifier gain-compression tests.

No photo

MODEL

HP 83592B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

83592B

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Frequency 0.01 to 20 GHz in four bands plus full band
- Maximum leveled power about 20 mW (+13 dBm) on bands 0-2 and most of band 3; 10 mW at 18.6-20 GHz; full-band 10 mW
- Minimum settable power -2 dBm; -72 dBm with Option 002 (70 dB step attenuator)
- Internal leveling within about 0.9 dB; displayed resolution 0.1 dB
- Power sweep greater than 12 dB calibrated range
- External AM, FM, and pulse modulation
- Compatible with 8350B; Type-N female RF output

83592B Characteristics / Specifications

PARAMETER	VALUE
Model	83592B
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Sweep oscillator RF plug-in (requires 8350B mainframe)
Frequency Range	0.01 to 20 GHz
Bands	0.01-2.4; 2.4-7; 7-13.5; 13.5-20 GHz; full band 0.01-20 GHz CW Accuracy
Band 0/	+/-5 MHz; Band 2/3: +/-10 MHz
Sweep Mode Accuracy	Band 0 +/-15 MHz to Band 3 +/-30 MHz; full band +/-50 MHz Maximum Leveled Power (Normal)
With Option 0	reduced (e.g., full band 5 mW) Power Level Accuracy Band 0 +/-1.5 dB; Bands 1-2 +/-1.3 dB; Band 3 +/-1.4 dB; Full band +/-1.5 dB
Harmonics/Subharmonics	Band 0 less than -20 dBc; Bands 1-3 less than -25 dBc; full band less than -20 dBc
Minimum Sweep Time	10 ms single band; 25 ms full band
RF Connector	Type-N female
Net Weight	About 6 kg (13.2 lb) Options 002: 70 dB step attenuator; 004: rear- panel RF output Operational Notes Requires an 8350B mainframe. Confirm Option 002 if low-level operation is needed. Allow warm-up with the mainframe before accuracy-critical measurements.

83592B Specifications

PARAMETER	VALUE
Key Features	- Frequency 0.01 to 20 GHz in four bands plus full band
Technical Specifications	Model: 83592B
CW Accuracy	Band 0/1: +/-5 MHz; Band 2/3: +/-10 MHz
Maximum Leveled Power (Normal)	Bands 0-2: 20 mW; Band 3: 20 mW (13.5-18.6 GHz), 10 mW (18.6-20 GHz); Full band: 10 mW
Power Level Accuracy	Band 0 +/-1.5 dB; Bands 1-2 +/-1.3 dB; Band 3 +/-1.4 dB; Full band +/-1.5 dB
Options	002: 70 dB step attenuator; 004: rear-panel RF output

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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CW Accuracy

Specifications

PARAMETER	VALUE
Band 0/1	+/-5 MHz; Band 2/3: +/-10 MHz
Sweep Mode Accuracy	Band 0 +/-15 MHz to Band 3 +/-30 MHz; full band +/-50 MHz
Maximum Levelled Power (Normal)	Bands 0-2: 20 mW; Band 3: 20 mW (13.5-18.6 GHz), 10 mW (18.6-20 GHz); Full band: 10 mW
With Option 002	reduced (e.g., full band 5 mW)

Specifications

PARAMETER	VALUE
Power Level Accuracy	Band 0 +/-1.5 dB; Bands 1-2 +/-1.3 dB; Band 3 +/-1.4 dB; Full band +/-1.5 dB
Harmonics/Subharmonics	Band 0 less than -20 dBc; Bands 1-3 less than -25 dBc; full band less than -20 dBc
Minimum Sweep Time	10 ms single band; 25 ms full band
RF Connector	Type-N female
Net Weight	About 6 kg (13.2 lb)

Options

002: 70 dB step attenuator; 004: rear-panel RF output

Operational Notes

Requires an 8350B mainframe. Confirm Option 002 if low-level operation is needed. Allow warm-up with the mainframe before accuracy-critical measurements.

Ordering Information

OPTION	DESCRIPTION
Option 002	(70 dB step attenuator)

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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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.