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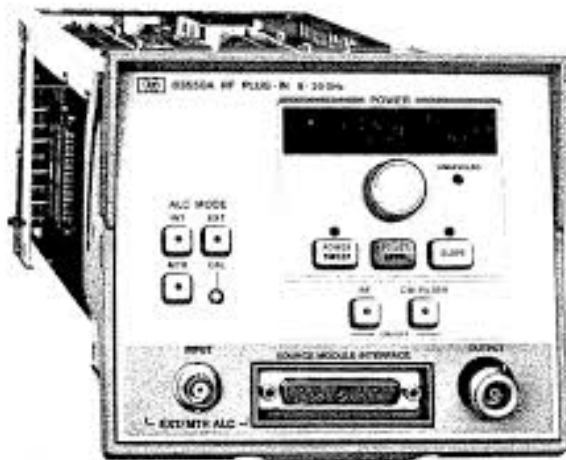
Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83550A RF plug-in, 8.0-20.0 GHz, for 8350B

HP 83550A RF Plug-in 8.0 to 20.0 GHz High Power Driver for 83550 Series mm Modules The HP 83550A is an 8.0 to 20.0 GHz RF plug-in for the 8350B sweep oscillator mainframe. It delivers high internally leveled coaxial output (+20 dBm from 8.0 to 18.6 GHz and +18 dBm from 18.6 to 20.0 GHz) and includes a source module interface to drive 83550-series millimeter-wave source modules that need at least +17 dBm drive. High-power microwave swept and CW stimulus; driver for 83554A/83555A/83556A (and related) mm-wave source modules; scalar network analysis and LO substitution when installed in an 8350B. The HP 83550A is an 8.0 to 20.0 GHz RF plug-in for the 8350B sweep oscillator mainframe. It delivers high internally leveled coaxial output (+20 dBm from 8.0 to 18.6 GHz and +18 dBm from 18.6 to 20.0 GHz) and includes a source module interface to drive 83550-series millimeter-wave source modules that need at least +17 dBm drive. High-power microwave swept and CW stimulus; driver for 83554A/83555A/83556A (and related) mm-wave source modules; scalar network analysis and LO substitution when installed in an 8350B.



MODEL

**HP / Agilent
83550A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83550A

LISTING

<https://aumictechlabs.com/products/83550a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 83550A is an RF plug-in for the 8350B sweep oscillator mainframe that extends microwave testing capabilities across 8.0 GHz to 20.0 GHz. This unit delivers leveled output power exceeding +20 dBm from 8.0 GHz to 18.6 GHz, dropping to +18 dBm minimum in the 18.6–20.0 GHz band. Output level accuracy is ± 1.5 dB with frequency accuracy of ± 20 MHz. Technical Specifications Frequency Range: 8.0 GHz to 20.0 GHz Output Leveled Power: $> +20$ dBm (8.0–18.6 GHz); $> +18$ dBm (18.6–20.0 GHz) Output Level Accuracy: ± 1.5 dB Frequency Accuracy: ± 20 MHz Harmonic Spurious Signals: -20 dBc at maximum specified power Non-Harmonic Spurious Signals: -50 dBc at maximum specified power Output Connector: N(f) Dimensions: 12 × 10 × 8 in Weight: 10 lbs Key Features Internal AM modulation with external pulse, AM, and FM modulation options Built-in source module interface enables operation as a microwave driver for HP 8355X series millimeter-wave source modules HP-IB programmability through 8350B mainframe for automated sweep control, marker frequencies, and output power adjustment Typical Applications Component characterization and receiver testing System integration and RF/microwave subsystem validation Scalar and network analyzer measurements Noise figure and power meter applications Compatibility & Integration The 83550A integrates with the 8350B mainframe and interfaces with industry standard instruments: network analyzers (HP 8510, HP 8410C), scalar network analyzers (HP 8756A, HP 8757A), counters (HP 5343A), noise figure meters (HP 8970), and power meters (HP 432A/B/C, HP 436A, HP 438A). HP-IB programmability enables integration into automated test systems.

Features & description

From manufacturer datasheet

Features

- 8.0 to 20.0 GHz coaxial plug-in for 8350B
- Internally leveled +20 dBm (8.0 to 18.6 GHz) and +18 dBm (18.6 to 20.0 GHz)
- Built-in source module interface for 83550-series mm multipliers
- Calibrated power control with 0.1 dB display resolution
- Internal square-wave AM (1 kHz or 27.8 kHz via 8350B) plus external pulse/AM/FM
- Option 002 programmable 50 dB step attenuator for extended low-level range
- TypeNfemale RF output

83550A Characteristics / Specifications

PARAMETER	VALUE
Model	83550A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Frequency Range	8.0 to 20.0 GHz
Maximum Leveled Power 8.0 to 18.6 GHz	+20 dBm
Maximum Leveled Power 18.6 to 20.0 GHz	+18 dBm
Minimum Drive For Source Modules	+17 dBm into module RF cable
Frequency Accuracy	plus/minus 20 MHz
Internal Leveling Flatness	less than plus/minus 1.25 dB
Output Level Accuracy	plus/minus 1.5 dB
Power Display Resolution	0.1 dB
Calibrated Power Range Class	at least 18 dB (standard); greater than 68 dB with Option 002
Harmonic Spurious At Max Power	-20 dBc
Nonharmonic Spurious At Max Power	-50 dBc
RF Output Connector	TypeNfemale
Source Module Interface	yes (83550-series mm modules)
Internal Square Wave	1 kHz or 27.8 kHz (8350B jumper)
External Pulse AM FM	supported (83500 family)
Mainframe Compatibility	8350B
Related Driver Alternative	8349B amplifier + 83590-series plug-in
Operating Temperature With Mainframe	0 to 55 C
Alias	HP 83550A; Agilent 83550A; Keysight 83550A
Operating temperature	With Mainframe: 0 to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	With Mainframe: 0 to 55 C
Operating Temperature	With Mainframe: 0 to 55 C
Operating Temperature With Mainframe	0 to 55 C
Alias	HP 83550A; Agilent 83550A; Keysight 83550A Notes Rows from Keysight/HP 83550-series mm-wave application/data sheets and 8350B catalog text for the 83550A driver. Confirm Option 002 and cable set when using asamm-module driver.

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	83550A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Sweep oscillator RF plug-in (requires 8350B)
Frequency Range	8.0 to 20.0 GHz
Maximum Levelled Power 8.0 to 18.6 GHz	+20 dBm
Maximum Levelled Power 18.6 to 20.0 GHz	+18 dBm
Minimum Drive For Source Modules	+17 dBm into module RF cable
Frequency Accuracy	plus/minus 20 MHz
Internal Leveling Flatness	less than plus/minus 1.25 dB
Output Level Accuracy	plus/minus 1.5 dB
Power Display Resolution	0.1 dB
Calibrated Power Range Class	at least 18 dB (standard); greater than 68 dB with Option 002
Harmonic Spurious At Max Power	-20 dBc
Nonharmonic Spurious At Max Power	-50 dBc
RF Output Connector	TypeNfemale
Source Module Interface	yes (83550-series mm modules)
Internal Square Wave	1 kHz or 27.8 kHz (8350B jumper)
External Pulse AM FM	supported (83500 family)
Option 002: 50 dB step attenuator	
Specifications	
PARAMETER	VALUE
Mainframe Compatibility	8350B
Related Driver Alternative	8349B amplifier + 83590-series plug-in
Operating Temperature With Mainframe	0 to 55 C
Alias	HP 83550A; Agilent 83550A; Keysight 83550A

Notes

Rows from Keysight/HP 83550-series mm-wave application/data sheets and 8350B catalog text for the 83550A driver. Confirm Option 002 and cable set when using asamm-module driver.

Ordering Information

OPTION	DESCRIPTION
Option 002	programmable 50 dB step attenuator for extended low-level range

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
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<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.