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Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 83621A Synthesized Sweeper, 45 MHz to 20 GHz

The 83621A is a member of the HP 8360 series synthesized sweepers covering 45 MHz to 20 GHz. It provides synthesized accuracy with sweep-oscillator versatility for microwave component and receiver test. Option 008 provides 1 Hz frequency resolution. Maximum power class: +13 dBm (8360 family literature) Power sweep range class: -20 dBm to maximum power Specs from HP/Agilent 8360-series / 83621A literature. Confirm options and leveled power on the unit.



MODEL

**HP / Agilent
83621A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83621A

LISTING

<https://aumictechlabs.com/products/83621a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 83621A Synthesized Sweeper is a precision RF signal source spanning 45 MHz to 20 GHz, engineered for network analysis and microwave characterization. It delivers synthesized frequency accuracy with flexible sweep capabilities and modulation options, operating either as a dedicated source for Agilent 8510 systems or as a standalone RF generator via HPIB control. Technical Specifications Frequency Range: 45 MHz to 20 GHz Output Power: Maximum leveled output: +10 dBm Minimum settable output: -20 dBm Frequency Resolution: 1 Hz Accuracy: CW mode: Same as time base accuracy Swept mode varies by sweep width: 0.1% ± time base for widths ≥10 MHz; 1% for widths ≥400 MHz; 4 MHz for widths ≥4 GHz; 0.1% for widths >4 GHz

Modulation: Linear AM mode (100%/V) with 100 kHz 3 dB bandwidth and 50 dB modulation depth
Scan modulation mode (10 dB/V) DC-coupled frequency modulation to 8 MHz AM and pulse modulation operate independently or simultaneously Physical: 24 × 20 × 16 in; 50 lbsKey Features
1 Hz frequency resolution and 10 Hz step capability List, step, and ramp sweep modes with configurable dwell time and trigger control Single sweep, manual sweep, and triggered sweep with output delay Power slope adjustment and attenuator decoupling Frequency offset and multiplier functions Save/recall register storage Rear panel RF output; no front panel display or keyboard Configurable power-up language: network analyzer protocol or SCPI Typical Applications Network analyzer source, swept filter characterization, component gain/loss measurement, and S-parameter acquisition across the full 45 MHz to 20 GHz band.Compatibility & Integration Primary source for Agilent 8510 network analyzer systems. Operates standalone with HPIB interface. Supports millimeter-wave extension via HP 83550 series modules (26.5 to 110 GHz).

Features & description

From manufacturer datasheet

Features

- 45 MHz low-end coverage (vs 10 MHz on 83620A / 2 GHz on 83622A)
 - Step, list, and ramp sweep modes
 - Optional 1 Hz resolution
-

Applications

- Microwave component and filter test from VHF through 20 GHz
- Receiver and converter stimulus
- Step, list, and ramp sweeps

83621A Characteristics / Specifications

PARAMETER	VALUE
Model	83621A
Manufacturer	HP / Agilent
Instrument Type	Synthesized Sweeper
Alias	83621A; Agilent 83621A; HP 83621A
Frequency range	45 MHz to 20 GHz
Standard frequency resolution	1 kHz
Maximum power class	+13 dBm (8360 family literature)
Power sweep range class	-20 dBm to maximum power
Sweep modes	Step, List, Ramp
Max FM deviation locked class	+/-8 MHz Notes Specs from HP/Agilent 8360-series / 83621A literature. Confirm options and leveled power on the unit.

83621A Specifications

PARAMETER	VALUE
HP / Agilent 83621A Synthesized Sweeper	Overview
Applications	- Microwave component and filter test from VHF through 20 GHz
Key Features	- 45 MHz low-end coverage (vs 10 MHz on 83620A / 2 GHz on 83622A)
Technical Specifications	Model: 83621A
Notes	Specs from HP/Agilent 8360-series / 83621A literature. Confirm options and leveled power on the unit.

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	83621A
Manufacturer	HP / Agilent
Instrument Type	Synthesized Sweeper
Alias	83621A; Agilent 83621A; HP 83621A

Frequency range: 45 MHz to 20 GHz
Standard frequency resolution: 1 kHz
Option 008 frequency resolution: 1 Hz

Specifications

PARAMETER	VALUE
Maximum power class	+13 dBm (8360 family literature)
Power sweep range class	-20 dBm to maximum power
Sweep modes	Step, List, Ramp
Max FM deviation locked class	+/-8 MHz

Notes

Specs from HP/Agilent 8360-series / 83621A literature. Confirm options and leveled power on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 008	provides 1 Hz frequency resolution.

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

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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.