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Data Sheet

August 8, 2026

AGILENT

HP / Agilent 83651A Synthesized Sweeper, 45 MHz to 50 GHz

HP / Agilent 83651A Synthesized Sweeper, 45 MHz to 50 GHz The HP / Agilent 83651A is a dedicated synthesized swept source covering 45 MHz to 50 GHz for Agilent 8510 vector network analyzer systems. It provides 1 Hz resolution with leveled power scaled by band: +10 dBm (≤ 20 GHz), +4 dBm (20–26.5 GHz), +3 dBm (26.5–40 GHz), and 0 dBm (> 40 GHz). Minimum settable power is –20 dBm. Designed as an 8510 system source sibling to 83621A/83631A. 8510 VNA stimulus to 50 GHz; broadband millimeter-wave swept source; automated component and network characterization. The HP / Agilent 83651A is a dedicated synthesized swept source covering 45 MHz to 50 GHz for Agilent 8510 vector network analyzer systems. It provides 1 Hz resolution with leveled power scaled by band: +10 dBm (≤ 20 GHz), +4 dBm (20–26.5 GHz), +3 dBm (26.5–40 GHz), and 0 dBm (> 40 GHz). Minimum settable power is –20 dBm. Designed as an 8510 system source sibling to 83621A/83631A. 8510 VNA stimulus to 50 GHz; broadband millimeter-wave swept source; automated component and network characterization.

No photo

MODEL

Agilent 83651A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

83651A

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: 45 MHz to 50 GHz • Resolution: 1 Hz • CW accuracy: same as time base • Maximum leveled: +10 dBm $\leq$ 20 GHz; +4 dBm to 26.5 GHz; +3 dBm to 40 GHz; 0 dBm >40 GHz • Minimum settable: -20 dBm • Swept-mode accuracy: per 8510 system source tables (width- and band-dependent) • Dedicated 8510 system source (no general-purpose front-panel modulation focus) • GPIB / system interconnect control

83651A Characteristics / Specifications

PARAMETER	VALUE
Model	83651A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized Swept Source (8510 dedicated)
Family	8360A / 8510 System Sources
Alias	HP 83651A; Agilent 83651A Frequency / Power 45 MHz–50 GHz; leveled power by band as above Operational Notes Prefer Agilent 83651A / 8510 system source specifications. Distinct from later 83651B and from general-purpose 83650A sweeper. Confirm connector and options on unit.
Frequency	45 MHz to 50 GHz
Resolution	1 Hz
CW accuracy	same as time base
Maximum leveled	+10 dBm $\leq$ 20 GHz; +4 dBm to 26.5 GHz; +3 dBm to 40 GHz; 0 dBm >40 GHz
Minimum settable	–20 dBm
Swept-mode accuracy	per 8510 system source tables (width- and band-dependent)

83651A Specifications

PARAMETER	VALUE
Applications	8510 VNA stimulus to 50 GHz; broadband millimeter-wave swept source; automated component and network characterization.
Key Features	- Frequency: 45 MHz to 50 GHz
Technical Specifications	Model: 83651A
Frequency / Power	45 MHz–50 GHz; leveled power by band as above

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

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Model	83651A
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Instrument Type	Synthesized Swept Source (8510 dedicated)
Family	8360A / 8510 System Sources
Alias	HP 83651A; Agilent 83651A

Frequency / Power

45 MHz-50 GHz; leveled power by band as above

Operational Notes

Prefer Agilent 83651A / 8510 system source specifications. Distinct from later 83651B and from general-purpose 83650A sweeper. Confirm connector and options on unit.

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

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.