

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 8, 2026

AGILENT

HP / Agilent 83624A Synthesized Sweeper, 2 to 20 GHz, High Power, +20 dBm

HP / Agilent 83624A Synthesized Sweeper, 2 to 20 GHz, High Power, +20 dBm The HP / Agilent 83624A is a high-power synthesized sweeper covering 2 to 20 GHz with +20 dBm maximum leveled output. It combines indirect-synthesis accuracy with step/list/ramp sweep modes for demanding high-drive microwave component and receiver test. Optional Opt 001 step attenuator extends minimum settable power to approximately -110 dBm (with associated max-power derating). High-power amplifier drive; mixer LO stimulus; receiver overload/margin testing; automated production microwave test; scan modulation and two-tone frequency-offset measurements. The HP / Agilent 83624A is a high-power synthesized sweeper covering 2 to 20 GHz with +20 dBm maximum leveled output. It combines indirect-synthesis accuracy with step/list/ramp sweep modes for demanding high-drive microwave component and receiver test. Optional Opt 001 step attenuator extends minimum settable power to approximately -110 dBm (with associated max-power derating). High-power amplifier drive; mixer LO stimulus; receiver overload/margin testing; automated production microwave test; scan modulation and two-tone frequency-offset measurements.

No photo

MODEL Agilent 83624A	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU 83624A	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: 2 to 20 GHz
- Resolution: 1 Hz with Option 008
- Sweep modes: Step, List, Ramp
- Maximum leveled power: +20 dBm (high power)
- Power sweep: -20 dBm to maximum (Opt 001: to -110 dBm)
- Harmonics: typically -25 dBc class, 2-20 GHz
- Phase noise: -76 dBc class (20 GHz at 10 kHz)
- Max FM deviation (locked): ± 8 MHz
- Scan modulation; user flatness correction; GPIB
- Power resolution: 0.02 dB class

83624A Characteristics / Specifications

PARAMETER	VALUE
Model	83624A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	High-Power Synthesized Sweeper
Family	8360A Series
Alias	HP 83624A; Agilent 83624A Frequency / Power 2–20 GHz; +20 dBm max leveled; Opt 001 optional Operational Notes Prefer Agilent 8360 Series datasheet for 83624A/B high-power column. Confirm Opt 001/008 on faceplate.
Frequency	2 to 20 GHz
Resolution	1 Hz with Option 008
Sweep modes	Step, List, Ramp
Maximum leveled power	+20 dBm (high power)
Power sweep	–20 dBm to maximum (Opt 001: to –110 dBm)
Harmonics	typically –25 dBc class, 2–20 GHz
Phase noise	–76 dBc class (20 GHz at 10 kHz)
Max FM deviation (locked)	±8 MHz
Power resolution	0.02 dB class

83624A Specifications

PARAMETER	VALUE
Key Features	- Frequency: 2 to 20 GHz
Technical Specifications	Model: 83624A
Frequency / Power	2–20 GHz; +20 dBm max leveled; Opt 001 optional
Operational Notes	Prefer Agilent 8360 Series datasheet for 83624A/B high-power column. Confirm Opt 001/008 on faceplate.

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	83624A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	High-Power Synthesized Sweeper
Family	8360A Series
Alias	HP 83624A; Agilent 83624A

Frequency / Power

2-20 GHz; +20 dBm max leveled; Opt 001 optional

Operational Notes

Prefer Agilent 8360 Series datasheet for 83624A/B high-power column. Confirm Opt 001/008 on faceplate.

Ordering Information

OPTION	DESCRIPTION
Option 008	Sweep modes: Step, List, Ramp

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
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
NAICS 423690 · 811210 · 541380
Generated August 8, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.