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Data Sheet

August 8, 2026

AGILENT

HP / Agilent 83640A Synthesized Sweeper, 10 MHz to 40 GHz

HP / Agilent 83640A Synthesized Sweeper, 10 MHz to 40 GHz The HP / Agilent 83640A is a synthesized sweeper covering 10 MHz to 40 GHz. It combines indirect-synthesis CW accuracy with step/list/ramp sweep modes for broadband microwave component and receiver test. Harmonics are typically ≤ -50 dBc from 2.0 to 26.5 GHz and ≤ -40 dBc above 26.5 GHz. Maximum leveled power is approximately +10 dBm below 26.5 GHz and +6 dBm above 26.5 GHz; Opt 001 step attenuator extends minimum settable power to about -110 dBm. The HP / Agilent 83640A is a synthesized sweeper covering 10 MHz to 40 GHz. It combines indirect-synthesis CW accuracy with step/list/ramp sweep modes for broadband microwave component and receiver test. Harmonics are typically ≤ -50 dBc from 2.0 to 26.5 GHz and ≤ -40 dBc above 26.5 GHz. Maximum leveled power is approximately +10 dBm below 26.5 GHz and +6 dBm above 26.5 GHz; Opt 001 step attenuator extends minimum settable power to about -110 dBm. Broadband component and receiver test to 40 GHz; amplifier/filter characterization; frequency conversion stimulus; scan modulation and two-tone offset measurements; automated ATE with user flatness correction.

No photo

MODEL Agilent 83640A	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU 83640A	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: 10 MHz to 40 GHz
- Resolution: 1 Hz with Option 008
- Sweep modes: Step, List, Ramp
- Max leveled power: $\approx +10$ dBm (< 26.5 GHz); $\approx +6$ dBm (> 26.5 GHz)
- Power sweep: -20 dBm to maximum (Opt 001: to -110 dBm)
- Harmonics: ≤ -50 dBc ($2-26.5$ GHz); ≤ -40 dBc (> 26.5 GHz)
- Phase noise: -70 dBc class (38 GHz at 10 kHz)
- Max FM deviation (locked): ± 8 MHz
- Scan modulation; user flatness correction; GPIB
- Power resolution: 0.02 dB class

83640A Characteristics / Specifications

PARAMETER	VALUE
Model	83640A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized Sweeper
Family	8360A Series
Alias	HP 83640A; Agilent 83640A Frequency / Power 10 MHz–40 GHz; +10/+6 dBm leveled class by band Operational Notes Prefer Agilent 8360 Series datasheet for 83640A column. Confirm Opt 001/008 on faceplate. Distinct from later 83640B.
Frequency	10 MHz to 40 GHz
Resolution	1 Hz with Option 008
Sweep modes	Step, List, Ramp
Max leveled power	$\approx +10$ dBm (<26.5 GHz); $\approx +6$ dBm (>26.5 GHz)
Power sweep	–20 dBm to maximum (Opt 001: to –110 dBm)
Harmonics	≤ -50 dBc (2–26.5 GHz); ≤ -40 dBc (>26.5 GHz)
Phase noise	–70 dBc class (38 GHz at 10 kHz)
Max FM deviation (locked)	± 8 MHz
Power resolution	0.02 dB class

83640A Specifications

PARAMETER	VALUE
Key Features	- Frequency: 10 MHz to 40 GHz
Technical Specifications	Model: 83640A
Frequency / Power	10 MHz–40 GHz; +10/+6 dBm leveled class by band
Operational Notes	Prefer Agilent 8360 Series datasheet for 83640A column. Confirm Opt 001/008 on faceplate. Distinct from later 83640B.

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	83640A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized Sweeper
Family	8360A Series
Alias	HP 83640A; Agilent 83640A

Frequency / Power

10 MHz-40 GHz; +10/+6 dBm leveled class by band

Operational Notes

Prefer Agilent 8360 Series datasheet for 83640A column. Confirm Opt 001/008 on faceplate. Distinct from later 83640B.

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

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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.