

**Aumictech**

Test &amp; measurement • bought, sold, repaired, calibrated

**Data Sheet**

August 8, 2026

AGILENT

# HP / Agilent 83623A Synthesized Sweeper, 10 MHz to 20 GHz, High Power

HP / Agilent 83623A Synthesized Sweeper, 10 MHz to 20 GHz, High Power The HP / Agilent 83623A is a high-power synthesized sweeper in the 8360A series covering 10 MHz to 20 GHz. It combines indirect-synthesis CW accuracy with step/list/ramp sweep modes for component, receiver, and frequency-conversion test. High-power leveled output reaches +17 dBm class; optional step attenuator (Opt 001) extends minimum settable power to approximately -110 dBm. High-drive amplifier and mixer stimulus; receiver test; two-tone and scan-modulation applications; automated microwave production test; user flatness correction at remote ports. The HP / Agilent 83623A is a high-power synthesized sweeper in the 8360A series covering 10 MHz to 20 GHz. It combines indirect-synthesis CW accuracy with step/list/ramp sweep modes for component, receiver, and frequency-conversion test. High-power leveled output reaches +17 dBm class; optional step attenuator (Opt 001) extends minimum settable power to approximately -110 dBm. High-drive amplifier and mixer stimulus; receiver test; two-tone and scan-modulation applications; automated microwave production test; user flatness correction at remote ports.

No photo

MODEL

**Agilent 83623A**

CALIBRATION

**N/A — off-catalog  
OEM datasheet**

CONDITION

**See OEM  
documentation**

STATUS

**Not listed on  
Aumictech  
inventory**

RFQ / SKU

**83623A**

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 20 GHz
- Resolution: 1 Hz with Option 008
- Sweep modes: Step, List, Ramp
- Maximum leveled power: +17 dBm (high power)
- Power sweep range: -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 offset)
- Max FM deviation (locked):  $\pm 8$  MHz
- Scan modulation; fixed/swept frequency offset; user flatness correction
- Power resolution: 0.02 dB class

## 83623A Characteristics / Specifications

| PARAMETER                 | VALUE                                                                                                                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                     | 83623A                                                                                                                                                                                                                                              |
| Manufacturer              | Hewlett-Packard / Agilent / Keysight                                                                                                                                                                                                                |
| Instrument Type           | High-Power Synthesized Sweeper                                                                                                                                                                                                                      |
| Family                    | 8360A Series                                                                                                                                                                                                                                        |
| Alias                     | HP 83623A; Agilent 83623A Frequency / Power 10 MHz–20 GHz; +17 dBm max leveled; Opt 001 optional Operational Notes Prefer Agilent 8360 Series datasheet (A models). Confirm Opt 001 / 008 on faceplate before quoting min power or 1 Hz resolution. |
| Frequency                 | 10 MHz to 20 GHz                                                                                                                                                                                                                                    |
| Resolution                | 1 Hz with Option 008                                                                                                                                                                                                                                |
| Sweep modes               | Step, List, Ramp                                                                                                                                                                                                                                    |
| Maximum leveled power     | +17 dBm (high power)                                                                                                                                                                                                                                |
| Power sweep range         | –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 offset)                                                                                                                                                                                                             |
| Max FM deviation (locked) | ±8 MHz                                                                                                                                                                                                                                              |
| Power resolution          | 0.02 dB class                                                                                                                                                                                                                                       |

# 83623A Specifications

| PARAMETER                | VALUE                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Key Features             | - Frequency: 10 MHz to 20 GHz                                                                                                    |
| Technical Specifications | Model: 83623A                                                                                                                    |
| Frequency / Power        | 10 MHz–20 GHz; +17 dBm max leveled; Opt 001 optional                                                                             |
| Operational Notes        | Prefer Agilent 8360 Series datasheet (A models). Confirm Opt 001 / 008 on faceplate before quoting min power or 1 Hz resolution. |

# 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           | 83623A                               |
| Manufacturer    | Hewlett-Packard / Agilent / Keysight |
| Instrument Type | High-Power Synthesized Sweeper       |
| Family          | 8360A Series                         |
| Alias           | HP 83623A; Agilent 83623A            |

Frequency / Power

10 MHz–20 GHz; +17 dBm max leveled; Opt 001 optional

Operational Notes

Prefer Agilent 8360 Series datasheet (A models). Confirm Opt 001 / 008 on faceplate before quoting min power or 1 Hz resolution.

# 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

**Aumictech**  
788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto: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.