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**Data Sheet**

August 12, 2026

AGILENT

# HP / Agilent 83622-A Synthesized Sweeper

The 83622A is a member of the HP 8360 series synthesized sweepers, covering 2 GHz to 20 GHz. It combines synthesized CW accuracy with sweep-oscillator speed for component test, receiver test, and frequency conversion. Indirect synthesis supports low SSB phase noise; Option 008 provides 1 Hz frequency resolution. Alias: 83622A; Agilent 83622A; HP 83622A; Keysight 83622A Power sweep range: -20 dBm to maximum power Harmonics 2.0 to 20 GHz: at least 50 dB below carrier Phase noise at 20 GHz, 10 kHz offset: -76 dBc

No photo

MODEL

**Agilent 83622-A**

CALIBRATION

**N/A — off-catalog  
OEM datasheet**

CONDITION

**See OEM  
documentation**

STATUS

**Not listed on  
Aumictech  
inventory**

RFQ / SKU

**83622-A**

LISTING

**Off-catalog — OEM dat  
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## Features & description

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From manufacturer datasheet

### Features

- Synthesized broadband coverage with sweep versatility
- Step, list, and ramp sweep modes
- Scan modulation for antenna-scan simulation
- User flatness correction for remote leveling
- Optional high-performance pulse modulator (family Opt 006)
- Optional 1 Hz resolution (Opt 008)

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### Applications

- Broadband microwave component and filter test
- Receiver and converter LO / stimulus applications
- Step, list, and ramp frequency sweeps
- Two-tone offset and user flatness correction setups

## 83622A Characteristics / Specifications

| PARAMETER                        | VALUE                                                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                            | 83622A                                                                                                                                                          |
| Manufacturer                     | HP / Agilent                                                                                                                                                    |
| Instrument Type                  | Synthesized Sweeper                                                                                                                                             |
| Alias                            | 83622A; Agilent 83622A; HP 83622A; Keysight 83622A                                                                                                              |
| Frequency range                  | 2 GHz to 20 GHz                                                                                                                                                 |
| Standard frequency resolution    | 1 kHz                                                                                                                                                           |
| Maximum power                    | +13 dBm                                                                                                                                                         |
| Power sweep range                | -20 dBm to maximum power                                                                                                                                        |
| Harmonics 2.0 to 20 GHz          | at least 50 dB below carrier                                                                                                                                    |
| Max FM deviation locked          | +/-8 MHz                                                                                                                                                        |
| Sweep modes                      | Step, List, Ramp                                                                                                                                                |
| AM modes                         | linear 100%/V; scan 10 dB/V                                                                                                                                     |
| AM depth class                   | 99.7% (50 dB)                                                                                                                                                   |
| AM 3 dB bandwidth class          | 100 kHz (dc-coupled family literature)                                                                                                                          |
| Pulse Opt 006 on/off ratio class | greater than 80 dB                                                                                                                                              |
| Pulse Opt 006 rise/fall class    | less than 10 ns Notes Specs from HP/Agilent 8360-series / 83622A product literature. Confirm Option 006/008 and actual max leveled power on the unit faceplate. |
| Bandwidth                        | class: 100 kHz (dc-coupled family literature)                                                                                                                   |

# 83622A Specifications

| PARAMETER                               | VALUE                                                                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| HP / Agilent 83622A Synthesized Sweeper | Overview                                                                                                                                  |
| Applications                            | - Broadband microwave component and filter test                                                                                           |
| Key Features                            | - Synthesized broadband coverage with sweep versatility                                                                                   |
| Technical Specifications                | Model: 83622A                                                                                                                             |
| Notes                                   | Specs from HP/Agilent 8360-series / 83622A product literature. Confirm Option 006/008 and actual max leveled power on the unit 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.

performance pulse modulator (family Opt 006)  
- Optional 1 Hz resolution (Opt 008)

Technical Specifications

### Technical Specifications

| PARAMETER       | VALUE                                              |
|-----------------|----------------------------------------------------|
| Model           | 83622A                                             |
| Manufacturer    | HP / Agilent                                       |
| Instrument Type | Synthesized Sweeper                                |
| Alias           | 83622A; Agilent 83622A; HP 83622A; Keysight 83622A |

Frequency range: 2 GHz to 20 GHz  
Standard frequency resolution: 1 kHz  
Option 008 frequency resolution: 1 Hz

### Specifications

| PARAMETER               | VALUE                        |
|-------------------------|------------------------------|
| Maximum power           | +13 dBm                      |
| Power sweep range       | -20 dBm to maximum power     |
| Harmonics 2.0 to 20 GHz | at least 50 dB below carrier |

Phase noise at 20 GHz, 10 kHz offset: -76 dBc

### Specifications

| PARAMETER                        | VALUE                                  |
|----------------------------------|----------------------------------------|
| Max FM deviation locked          | +/-8 MHz                               |
| Sweep modes                      | Step, List, Ramp                       |
| AM modes                         | linear 100%/V; scan 10 dB/V            |
| AM depth class                   | 99.7% (50 dB)                          |
| AM 3 dB bandwidth class          | 100 kHz (dc-coupled family literature) |
| Pulse Opt 006 on/off ratio class | greater than 80 dB                     |
| Pulse Opt 006 rise/fall class    | less than 10 ns                        |

Notes  
Specs from HP/Agilent 8360-series / 83622A product literature. Confirm Option 006/008 and actual max leveled power on the unit faceplate.

## Ordering Information

| OPTION     | DESCRIPTION                         |
|------------|-------------------------------------|
| Option 008 | provides 1 Hz frequency resolution. |

### 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 ·  
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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.