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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83622B Synthesized Swept-Signal Generator, 2 â€" 20 GHz, +13 dBm calibrated output

HP / Agilent 83622B Synthesized Swept Signal Generator 2 GHz to 20 GHz The HP/Agilent 83622B is the 2 GHz to 20 GHz standard-power member of the 8360B synthesized swept-signal family. Indirect synthesis provides 1 kHz CW resolution (1 Hz with Option 008) with step, list, and ramp sweep. Maximum leveled output is +13 dBm; Option 001 step attenuator extends minimum settable power to -110 dBm. Pulse, AM, scan, and FM modulation apply on B-series instruments (not on 8360L CW-only siblings). Broadband microwave component and filter test from 2 to 20 GHz; receiver and converter stimulus; scalar and user-flatness-corrected ATE; two-tone offset and scan-modulation setups; 83550-series millimeter source-module drive via the source-module interface. The HP/Agilent 83622B is the 2 GHz to 20 GHz standard-power member of the 8360B synthesized swept-signal family. Indirect synthesis provides 1 kHz CW resolution (1 Hz with Option 008) with step, list, and ramp sweep. Maximum leveled output is +13 dBm; Option 001 step attenuator extends minimum settable power to -110 dBm. Pulse, AM, scan, and FM modulation apply on B-series instruments (not on 8360L CW-only siblings). Broadband microwave component and filter test from 2 to 20 GHz; receiver and converter stimulus; scalar and user-flatness-corrected ATE; two-tone offset and scan-modulation setups; 83550-series millimeter source-module drive via



MODEL

**HP / Agilent
83622B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83622B

LISTING

<https://aumictechlabs.com/products/83622b-2/>

NIST-traceable cal

SAM registered

30-day returns

This unit

The HP/Agilent 83622B Synthesized Swept-Signal Generator is a versatile instrument designed for demanding signal generation tasks. It has a frequency range of 2 GHz to 20 GHz and a calibrated output power of +13 dBm. The synthesized architecture ensures high frequency accuracy and stability. Suitable for use in automated test systems, research and development, and manufacturing environments where precise and repeatable signals are required.

Features & description

From manufacturer datasheet

Features

- 8360B swept-signal generator (modulation capable), not the 83622A predecessor
- Step (2 to 801 points), list (1 to 801 points), and analog ramp sweep
- User flatness correction: 2 to 801 points per table, up to 8 tables
- Optional fast pulse (Option 006) and internal modulation generator (Option 002)
- Auxiliary 2 to 26.5 GHz unmodulated reference output, typically -10 dBm
- Precision 3.5 mm male RF output; Type-N adapter 1250-1745 supplied

83622B Characteristics / Specifications

PARAMETER	VALUE
Model	83622B
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Synthesized swept signal generator
Family	8360B Series
Alias	HP 83622B; Agilent 83622B; Keysight 83622B
Frequency Range	2 GHz to 20 GHz
Standard Frequency Resolution	1 kHz
Timebase Aging Rate	5e-10 per day; 1e-7 per year
Timebase Temperature Typical	1e-10 perC Timebase Line Voltage Typical: 5e-10 for 10 percent line change
Maximum Leveled Power	+13 dBm (standard and Option 006)
Minimum Settable Power Standard	-20 dBm
Minimum Settable Power Option 0	-110 dBm
Power Resolution	0.02 dB
Power Switching Time Typical	10 ms without attenuator change
Power Temperature Stability Typical	0.01 dB perC Power Accuracy Above minus 10 dBm 2 to 20 GHz: plus/minus 0.7 dB
Power Flatness Above minus 10 dBm 2 to 20 GHz	plus/minus 0.6 dB
Harmonics 2 to 26.5 GHz Standard	-50 dBc
Harmonics With Option 0	-60 dBc
Subharmonics Below 7 GHz	none
Subharmonics 7 to 20 GHz	-50 dBc
Phase Noise 13.5 to 20 GHz at 10 kHz Offset	-76 dBc/Hz
CW Switching Within Band	15 ms plus 5 ms per GHz step
CW Switching Maximum Or Band Cross	50 ms

PARAMETER	VALUE
Step Sweep Points	2 to 801
List Mode Points	1 to 801
Dwell Time	100 us to 3.2 s
Ramp Sweep Time	10 ms to 100 s; 300 MHz/ms maximum rate
Analog Power Sweep Range	-20 dBm to maximum available power
Pulse On Off Ratio	80 dB
Pulse Rise Fall Standard	25 ns
Pulse Rise Fall Option 0	10 ns
FM Locked Maximum Deviation	plus/minus 8 MHz
AM Linear Sensitivity	100 percent per volt
Scan Exponential Sensitivity	10 dB per volt
Source Match Typical Below 20 GHz	1.6:1 SWR internally leveled
RF Connector	precision 3.5 mm male
Net Weight	27 kg (60 lb)
Shipping Weight	36 kg (80 lb)
Dimensions	178 mmHx 425 mmWx 648 mmD Mains: 48 to 66 Hz; 115 V (+10/-25 percent) or 230 V (+10/-15 percent); 400 VA maximum
Operating Temperature	0 C to 55 C
Storage Temperature	-40 C to 75 C
Warm Up Operation	30 minutes from cold start

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 75 C
Operating temperature	0 C to 55 C
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Warm Up Operation	30 minutes from cold start Notes Specs from Agilent 8360B Series / 8360L Series Synthesized Swept Signal and CW Generators data sheet 5964-6162E. This file is the 2 to 20 GHz standard-power 83622B, not the high-power 83624B and not the 10 MHz-start 83620B. Confirm Option 001 attenuator, 008 1 Hz resolution, 006 pulse, and 002 modulation generator on the unit.

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	
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PARAMETER	VALUE
Model	83622B
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Synthesized swept signal generator
Family	8360B Series
Alias	HP 83622B; Agilent 83622B; Keysight 83622B
Frequency Range	2 GHz to 20 GHz
Standard Frequency Resolution	1 kHz
Option 008 Frequency Resolution: 1 Hz	
Specifications	
PARAMETER	VALUE
Timebase Aging Rate	5e-10 per day; 1e-7 per year
Timebase Temperature Typical	1e-10 perC Timebase Line Voltage Typical: 5e-10 for 10 percent line change
Maximum Levelled Power	+13 dBm (standard and Option 006)
Minimum Settable Power Standard	-20 dBm
Minimum Settable Power Option 001	-110 dBm
Power Resolution	0.02 dB
Power Switching Time Typical	10 ms without attenuator change
Power Temperature Stability Typical	0.01 dB perC Power Accuracy Above minus 10 dBm 2 to 20 GHz: plus/minus 0.7 dB
Power Flatness Above minus 10 dBm 2 to 20 GHz: plus/minus 0.6 dB	
Specifications	
PARAMETER	VALUE
Harmonics 2 to 26.5 GHz Standard	-50 dBc
Harmonics With Option 006	-60 dBc
Subharmonics Below 7 GHz	none

PARAMETER	VALUE
Subharmonics 7 to 20 GHz	-50 dBc

Phase Noise 13.5 to 20 GHz at 10 kHz Offset: -76 dBc/Hz

Specifications

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CW Switching Within Band	15 ms plus 5 ms per GHz step
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Notes

Specs from Agilent 8360B Series / 8360L Series Synthesized Swept Signal and CW Generators data sheet 5964-6162E. This file is the 2 to 20 GHz standard-power 83622B, not the high-power 83624B and not the 10 MHz-start 83620B. Confirm Option 001 attenuator, 008 1 Hz resolution, 006 pulse, and 002 modulation generator on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 001	step attenuator extends minimum settable power to -110 dBm. Pulse, AM, scan, and FM modulation apply on B-series instruments (not on 8360L CW-only siblings).
Option 008	Frequency Resolution: 1 Hz

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.