

KEYSIGHT TECHNOLOGIES (AGILENT HP)

83620A

The Agilent/Keysight 83620A is a high-performance synthesized sweeper operating from 10 MHz to 20 GHz. It combines the precise frequency resolution and low phase noise of a synthesized source with the speed and versatility of a swept oscillator. With a maximum leveled power of +13 dBm, excellent harmonic suppression, and standard step, list, and ramp sweep modes, it is a versatile general-purpose source for component testing, receiver characterization, and frequency conversion applications.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488)
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Physical

Power Supply	100 / 120 / 220 / 240 Vac, 48-66 Hz (400 Hz at 100/120 Vac); 400 VA max
Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	425 × 178 × 648 mm
Weight	27.4 kg

Frequency Specifications

Frequency Range	10 MHz - 20 GHz
Frequency Resolution	1 kHz (Standard) / 1 Hz (Option 008)
Internal Timebase Reference	10 MHz

Sweep Specifications

Sweep Triggers	Auto, External, Single, Line
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Output Power (Amplitude) Specifications

Maximum Leveled Power	+13 dBm (< 20 GHz)
Power Sweep Range	-20 dBm to maximum power
Level Flatness Correction	User flatness correction for leveling at remote test system points

Spectral Purity

Harmonics	<-50 dBc (2.0 to 20 GHz)
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Connectivity and Interfaces

RF Output Connector	3.5 mm (male)
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Physical and Power Specifications

Rack Units (RU)	4U
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RF Output

Output Impedance	50 Ω nominal
Minimum Leveled Power	-20 dBm (Standard) / -110 dBm (with Option 001 Step Attenuator)

Modulation

Pulse Modulation (On/Off Ratio)	> 80 dB
AM Bandwidth (3 dB)	DC to 100 kHz

Sweep

Analog Sweep Time	10 ms to 100 s
Step Sweep Points	2 to 801

Options

Option 001	Step Attenuator (extends minimum leveled power to -110 dBm)
Option 002	Internal Modulation Generator
Option 008	1 Hz Frequency Resolution
Option 004	Rear Panel RF Output
Option 006	Fast Pulse Modulation

Power Specifications

Power Resolution	0.01 dB
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Environmental

Storage Temperature	-40 °C to +75 °C
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TECHNOLOGY

Synthesized Swept-Signal Generation

APPLICATIONS

Component test, receiver test, frequency conversion, two-tone measurement, antenna scan pattern simulation

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.