

KEYSIGHT TECHNOLOGIES (AGILENT HP)

83623B

The Keysight (Agilent/HP) 83623B is a high-power synthesized swept-signal generator providing broadband frequency coverage 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 an analog sweep oscillator.

SPECIFICATIONS

General

Interfaces	GPIO
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Physical

Operating Temperature	0 to 55 °C °C
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Frequency Characteristics

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

Sweep Characteristics

Sweep Modes	CW, Manual, Step, List, Ramp (Analog)
Sweep Control	Start/stop, center/span, marker (M1-M2), alternate sweep
Sweep Trigger	Auto, external, single, or GPIO

Output Power and Amplitude

Maximum Leveled Power	+17 dBm (calibrated)
Minimum Settable Power	-110 dBm (with Option 001 step attenuator)

Spectral Purity

Harmonics (2 to 20 GHz)	<-25 dBc (-50 dBc typical)
SSB Phase Noise (10 kHz offset)	<-80 dBc/Hz @ 10 GHz

Modulation

Supported Modulation	Pulse, Amplitude (AM), and Frequency (FM)
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Interfaces and Connectivity

RF Output Connector	3.5 mm (male)
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TECHNOLOGY

Synthesized Swept Signal Generator

APPLICATIONS

RF/Microwave component test, radar testing, and general-purpose broadband signal generation.

