

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5183B

The Keysight N5183B is an MXG X-Series microwave analog signal generator designed for high performance in RF and microwave applications. It offers excellent phase noise, fast switching speeds, and high output power, available with various frequency range options up to 40 GHz.

SPECIFICATIONS

Frequency

Minimum Frequency	9 kHz Hz
Maximum Frequency	40 GHz Hz
Frequency Resolution	0.001 Hz

Output

Maximum Output Power	+20 dBm (with Option 1EA at 20 GHz) dBm
Output Power Range	-130 dBm to +20 dBm (with Option 1E1 and Option 1EA)

Modulation

Modulation	AM, FM, PM, Pulse (option dependent)
Sweep Modes	Step, List
Internal Modulation Waveforms	Sine, Square, Triangle, Ramp, Noise (Option UNT)
AM Depth	0 to 100% (Option UNT)

General

Interfaces	GPIO (IEEE-488), LAN (1000Base-T), USB 2.0
Recommended Calibration Cycle	3 years

Physical

Power Supply	100 to 120 VAC (50/60/400 Hz), 220 to 240 VAC (50/60 Hz)
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Frequency Specifications

Frequency Options	Option 513 (9 kHz to 13 GHz), Option 520 (9 kHz to 20 GHz), Option 532 (9 kHz to 31.8 GHz), Option 540 (9 kHz to 40 GHz)
Internal Reference Frequency	10 MHz

Amplitude Specifications

Amplitude Resolution	0.01 dB
Output Impedance	50 Ω (nominal)

Pulse Modulation

Minimum Pulse Width	20 ns (with Option UNW)
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Inputs, Outputs, and Interfaces

RF Output Connector	3.5 mm (m) or 2.4 mm (m) depending on frequency option
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Environmental and Compliance

Operating Temperature	0 °C to 55 °C
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Physical and Power

Rackmount Size	2 RU
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Environmental

Storage Temperature	-40 °C to 71 °C
Environmental Standard	MIL-PRF-28800F Class 3
Operating Altitude	Up to 4,600 m (15,000 ft)

Compliance

EMC Compliance	IEC 61326-1, CISPR 11 Group 1 Class A
Safety Compliance	IEC 61010-1, CSA C22.2 No. 61010-1

Options

Available Modulation Options	UNT (AM/FM/PM), UNW (Narrow Pulse Modulation)
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Software & Control

Command Compatibility	SCPI, Keysight PSG, 8340/8360, 83700, and 8673 series (backward compatible)
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TECHNOLOGY

Analog Signal Generation

APPLICATIONS

RF and Microwave Test, Radar, Communications

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