

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5183A

The Keysight (formerly Agilent) N5183A MXG is a microwave analog signal generator providing precise and reliable RF stimulus for broadband component manufacturing and test up to 40 GHz. With rapid frequency switching speeds and high output power options, it is designed for demanding high-throughput applications like antenna manufacturing and device characterization.

SPECIFICATIONS

Frequency

Minimum Frequency	100 kHz Hz
Maximum Frequency	40 GHz (Option 540) Hz
Frequency Resolution	0.01 Hz

Modulation

Modulation	AM, FM, Phase (Φ M), and Pulse modulation
Sweep Modes	Digital step and list sweep
AM, FM, Phase Modulation	Requires Option UNT
Pulse Modulation	Requires Option UNU (Standard) or UNW (Narrow)
Pulse Modulation On/Off Ratio	> 80 dB (typical, option dependent)

General

Reference Oscillator	10 MHz
Interfaces	100BaseT LAN, USB 2.0, GPIB

Physical

Dimensions (W×H×D)	426 × 88 × 432 mm mm
Weight	13.8 kg kg
RF Output Connector	3.5 mm (m) for 20 GHz option; 2.4 mm (m) for 31.8 / 40 GHz options

Frequency Specifications

Frequency Options	20 GHz (Option 520), 31.8 GHz (Option 532), or 40 GHz (Option 540)
Frequency Switching Speed	≤ 900 μs (≤ 600 μs typical)
Internal Reference Frequency	10 MHz

Amplitude and Output Specifications

Output Impedance	50 Ω (nominal)
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Pulse Modulation

Minimum Pulse Width	20 ns
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Sweep Capabilities

Sweep Types	Step, List
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Remote Control and Software

Remote Interfaces	LAN (100BaseT), USB 2.0, GPIB
LXI Compliance Class	LXI Class C
Supported Programming Languages	SCPI
Software/Driver Support	IVI-COM drivers
Legacy Instrument Emulation Modes	Backward compatible with PSG, 8340, 8360, and 8370 Series

Physical and Power Specifications

Form Factor / Rack Units	2 RU
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Environmental

Operating Temperature	0 to 55 °C
Operating Altitude	Up to 4,600 meters (15,000 ft)

Amplitude & Power

Amplitude Resolution	0.01 dB
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Frequency & Phase

External Reference Input Frequency	10 MHz (standard), 1 to 50 MHz (with Option 1ER)
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Sweep

List Sweep Maximum Points	3201
Step Sweep Maximum Points	65535
Sweep Trigger Sources	Free run, Trigger Key, External, Timer, Bus

Compliance & Safety

EMC Compliance	IEC/EN 61326-1
Safety Compliance	IEC/EN 61010-1

TECHNOLOGY

Microwave Analog

APPLICATIONS

Broadband component manufacturing, antenna test, LO substitution, CW interferer, and device characterization

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