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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5183A MXG Microwave Analog Signal Generator, 100 kHz to 40 GHz

Agilent N5183A MXG Microwave Analog Signal Generator The Agilent N5183A MXG is a microwave analog signal generator covering 100 kHz to 20, 31.8, or 40 GHz depending on option. OEM MXG microwave datasheets list optioned frequency ranges, leveled power tables, and analog modulation options for microwave ATE. Microwave CW and analog-modulated stimulus for radar/EW, satellite component test, and manufacturing LO substitution to 40 GHz. Frequency Option 532: 100 kHz to 31.8 GHz The Agilent N5183A MXG is a microwave analog signal generator covering 100 kHz to 20, 31.8, or 40 GHz depending on option. OEM MXG microwave datasheets list optioned frequency ranges, leveled power tables, and analog modulation options for microwave ATE. Microwave CW and analog-modulated stimulus for radar/EW, satellite component test, and manufacturing LO substitution to 40 GHz. Frequency Option 532: 100 kHz to 31.8 GHz Frequency Resolution Class: 0.01 Hz class MXG



MODEL

**Agilent / Keysight
N5183A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5183A

LISTING

<https://aumictechlabs.com/products/n5183a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N5183A MXG is a microwave analog signal generator spanning 100 kHz to 40 GHz, engineered for aerospace, defense, and communications applications requiring broadband component testing and signal simulation. It delivers superior output power, level accuracy, and

phase noise performance in a compact 2U form factor suitable for rack-based installations. Technical Specifications Frequency Range & Switching 100 kHz to 40 GHz (20 GHz, 31.8 GHz, and 40 GHz configurations available) Frequency switching: 4.5 GHz) outside this range Temperature coefficient: $-0.2 \text{ dB/}^{\circ}\text{C}$ outside $15\text{--}35^{\circ}\text{C}$ Amplitude switching: $\leq 5 \text{ ms}$ typical from command/trigger to $\pm 0.2 \text{ dB}$ settlement Phase Noise -116 dBc/Hz at 1 GHz (20 kHz offset), typical -113 dBc/Hz at 1 GHz carrier (20 kHz offset) -89 dBc/Hz at 20 GHz carrier (20 kHz offset) Spectral Purity Harmonics: 20 GHz) Non-harmonics: $\leq -70 \text{ dBc}$ at 1 GHz Modulation AM (0–10 kHz rate, 90% maximum depth), FM (10 MHz deviation at 1 GHz, DC–7 MHz rate), PM (1.25–160 rad; high-BW mode: 0.125–16 rad), and pulse modulation Pulse modulation: 80 dB on/off ratio Pulse train generator capability AM and FM run concurrently; FM and PM cannot combine List sweep and step sweep modes with simultaneous frequency/amplitude sweeps Compatibility & Integration Backward compatible with legacy Agilent and HP signal generators, preserving existing software investments.

Features & description

From manufacturer datasheet

High Power Option: Option 1EA

Low Power Option Class: Option 1EQ class Fast Switching Option: Option UNZ class Operating Temperature Spec: 0 to 55 C Form Factor Height Class: 2U / 3.5 inch class MXG chassis Series Family: Agilent MXG N5183A microwave analog Matching EXG Microwave: N5173B Nonharmonic Spec Note: Banded nonharmonic tables on OEM sheet (serial-number dependent) Leveled Power Note: Maximum leveled power is frequency- and option-dependent per OEM tables Express Configuration Note: Express MXG configurations documented in OEM technical overview Remote Interfaces: GPIB, LAN, USB Notes From Agilent N5183A MXG Microwave Analog Signal Generator data sheet 5989-7572 family. Confirm installed frequency option on the unit.

N5183A Characteristics / Specifications

PARAMETER	VALUE
Frequency Option 5	100 kHz to 31.8 GHz
Frequency Resolution Class	0.01 Hz class MXG
Minimum Frequency	100 kHz
RF Connector Impedance	50 ohms nominal
Reference Output Frequency	10 MHz
Amplitude Resolution	0.01 dB
Step Sweep Points Class	2 to 65535 class
List Sweep Points Class	1 to 3201 class
Dwell Time Range Class	100 us to 100 s class
Modulation Modes	Analog AM FM PM pulse options
High Power Option	Option 1EA
Low Power Option Class	Option 1EQ class
Fast Switching Option	Option UNZ class
Operating Temperature Spec	0 to 55 C
Form Factor Height Class	2U / 3.5 inch class MXG chassis
Series Family	Agilent MXG N5183A microwave analog
Matching EXG Microwave	N5173B
Nonharmonic Spec Note	Banded nonharmonic tables on OEM sheet (serial-number dependent)
Leveled Power Note	Maximum leveled power is frequency- and option-dependent per OEM tables
Express Configuration Note	Express MXG configurations documented in OEM technical overview
Remote Interfaces	GPIB, LAN, USB
Operating temperature	Spec: 0 to 55 C

N5183A Specifications

PARAMETER	VALUE
Agilent N5183A MXG Microwave Analog Signal Generator	Overview
Applications	Microwave CW and analog-modulated stimulus for radar/EW, satellite component test, and manufacturing LO substitution to 40 GHz.
Microwave analog MXG platform	Options to 20/31.8/40 GHz
Technical Specifications	Frequency Option 520: 100 kHz to 20 GHz
Notes	From Agilent N5183A MXG Microwave Analog Signal Generator data sheet 5989-7572 family. Confirm installed frequency option on the unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec: 0 to 55 C
Operating Temperature	Spec: 0 to 55 C
Operating Temperature Spec	0 to 55 C
Form Factor Height Class	2U / 3.5 inch class MXG chassis
Series Family	Agilent MXG N5183A microwave analog
Matching EXG Microwave	N5173B
Nonharmonic Spec Note	Banded nonharmonic tables on OEM sheet (serial-number dependent)
Leveled Power Note	Maximum leveled power is frequency- and option-dependent per OEM tables
Express Configuration Note	Express MXG configurations documented in OEM technical overview
Remote Interfaces	GPIB, LAN, USB Notes From Agilent N5183A MXG Microwave Analog Signal Generator data sheet 5989-7572 family. Confirm installed frequency option 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	
Specifications	
PARAMETER	VALUE
Frequency Option 520	100 kHz to 20 GHz
Frequency Option 532	100 kHz to 31.8 GHz
Frequency Option 540	100 kHz to 40 GHz
Frequency Resolution Class	0.01 Hz class MXG
Minimum Frequency	100 kHz
RF Connector Impedance	50 ohms nominal
Reference Output Frequency	10 MHz
Amplitude Resolution	0.01 dB
Step Sweep Points Class	2 to 65535 class
List Sweep Points Class	1 to 3201 class
Dwell Time Range Class	100 us to 100 s class
Modulation Modes	Analog AM FM PM pulse options
High Power Option	Option 1EA
Low Power Option Class	Option 1EQ class
Fast Switching Option	Option UNZ class
Operating Temperature Spec	0 to 55 C
Form Factor Height Class	2U / 3.5 inch class MXG chassis
Series Family	Agilent MXG N5183A microwave analog
Matching EXG Microwave	N5173B
Nonharmonic Spec Note	Banded nonharmonic tables on OEM sheet (serial-number dependent)
Leveled Power Note	Maximum leveled power is frequency- and option-dependent per OEM tables
Express Configuration Note	Express MXG configurations documented in OEM technical overview
Remote Interfaces	GPIB, LAN, USB
Notes	
From Agilent N5183A MXG Microwave Analog Signal Generator data sheet 5989-7572 family. Confirm installed frequency option on the unit.	

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
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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.