

Agilent N5181A MXG RF Analog Signal Generator

Optimized for fast, accurate,
and repeatable RF test stimulus



Features

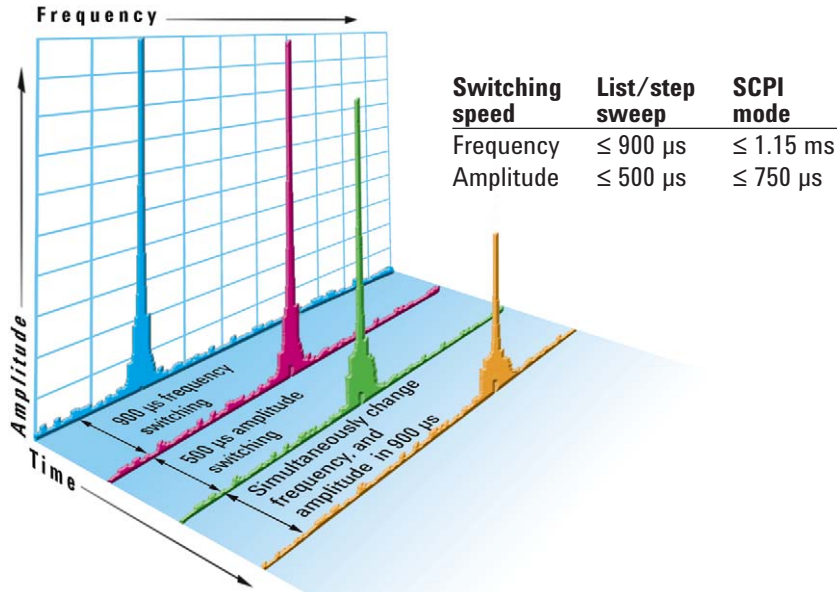
- 100 kHz to 1, 3 or 6 GHz frequency range
- $\leq 900 \mu\text{s}$ simultaneous frequency and amplitude switching (list mode)
- +23 dBm output power at 3 GHz
- Innovative design for reliability and easy self-maintenance to maximize uptime

Agilent Technologies MXG RF analog signal generator provides better value for your investment by increasing throughput, maximizing uptime, and saving rack space. Featuring optional high power, fast switching speeds, and analog modulation, MXG analog is scalable to fit your test needs and delivers high reliability, and simplified self-maintenance - all in two-rack units (2RU).



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Industry leading switching speed



Overcome system loss

To compensate for power losses through cables, switches and other components, MXG provides +23 dBm output power to 3 GHz, ensuring your device receives adequate power.

Increasing throughput

With the fastest SCPI-mode *simultaneous* frequency and amplitude switching speeds in its class, MXG reduces test times, letting you increase throughput using fewer resources and capital.

Maximizing uptime

Every element of MXG is designed to maximize uptime, from a reliable architecture down to cost- and time-effective tools for easy self-maintenance:

Make repairs in less than 45 minutes, no calibration required.

- 100% internal diagnostic capability
- 100% field-replaceable assemblies
 - Simplified design – only 4 field-replaceable assemblies
 - Board assemblies are fully calibrated and certified
 - All assemblies orderable as repair parts

Scalable performance

Easily configure the MXG as a RF continuous-wave (CW) or modulated stimulus with choice of optional frequency range (up to 1, 3, 6 GHz), AM/FM/ΦM, and pulse modulation. This flexibility enables you to tailor the MXG for the performance and price you need.

Key features

- 100 kHz to 1, 3, or 6 GHz
- +23 dBm at 1 & 3 GHz, +17 dBm at 5 GHz, +16 dBm at 6 GHz
- Optional AM/FM/ΦM, pulse modulation
- ≤ 900 µs simultaneous frequency and amplitude switching (list mode); ≤ 1.15 ms switching (SCPI mode)
- Simplified design for reliability and easy self-maintenance
- Electronic attenuator up to 6 GHz
- SSB phase noise: -121 dBc/Hz at 20 kHz offset, 1 GHz
- 110 bT LAN (LXI class C), USB 2.0, GPIB
- Code compatibility - 8648 Series, all ESG products, and other vendor signal generators

Ordering information

N5181A-501	100 kHz to 1 GHz
N5181A-503	100 kHz to 3 GHz
N5181A-506	100 kHz to 6 GHz
N5181A-1EA	High power
N5181A-UNZ	Fast switching (freq. & amp.)
N5181A-1EQ	Low power (<-110 dBm)
N5181A-UNU	Pulse modulation
N5181A-UNW	Narrow pulse modulation
N5181A-UNT	AM, FM, phase modulation
N5181A-006	Instrument security
N5181A-1ER	Flexible reference input (1 to 50 MHz)
N5181A-1EM	Move RF output to rear panel
N5181A-099	Expanded license key upgradeability
N5181A-UK6	Commercial Calibration Certificate with test data

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