

Agilent PSG, MXG, and EXG Microwave Signal Generators



Generate trusted performance

When you describe the demands on your newest programs, the urgency is clear—and that's what keeps us innovating in microwave signal generators. Our foundation is the PSG, with its metrology-grade performance and versatile capabilities. Complementing the PSG, the MXG and EXG offer meaningful alternatives in size, speed, and cost.

Agilent microwave signal generators are an essential part of today's most advanced measurement systems. They reliably provide the signal purity, output power, and modulation you need to keep pushing the envelope. In your ongoing pursuit of mission success, we can help you generate trusted performance.

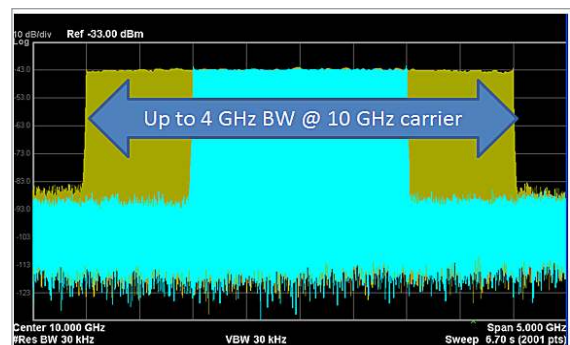
Push the envelope with exceptional signals

- Drive advanced designs forward with the high output power and extremely low phase noise of the E8267D and E8257D PSG
- Get the right mix of speed, performance, and size with the pure and precise N5183B MXG
- Balance performance needs and budget realities with the cost-effective N5173B EXG
- Lower your cost-of-ownership with signal generators that deliver proven reliability and support for cost-effective calibration, service, and repair

Address tough requirements with PSG

The PSG is the industry's most trusted microwave signal generator, with thousands of units deployed in hundreds of programs around the world. The PSG's metrology-grade performance and evolving capabilities continue to enable new designs that stay ahead of emerging threats.

- Meet test system needs up to 20, 31.8, 40, 50, or 67 GHz, and reach 1.1 THz with frequency-extender modules
- Test high-power devices and overcome system losses with optional output power >1 W (+30 dBm)
- Address demanding test needs in Doppler radar, ADC, and receiver-blocking with extremely low phase noise: -91 dBc/Hz at 100 Hz offset and -126 dBc/Hz at 10 kHz offset for a 10 GHz carrier signal
- Simulate complex electromagnetic environments with 2 GHz bandwidth, or more at select carrier frequencies

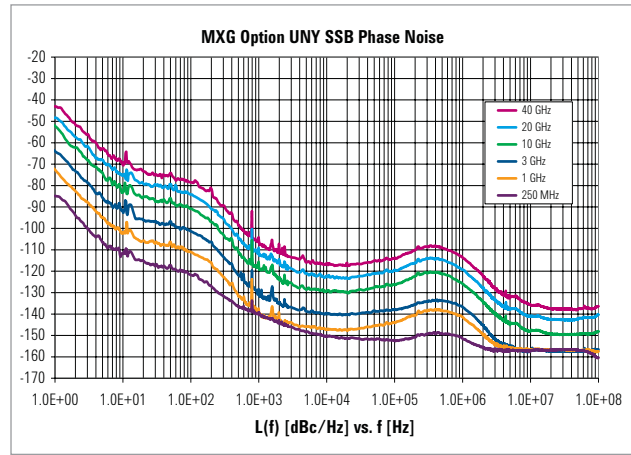


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Maximize speed and rack space with MXG

The MXG is the pure and precise alternative to the analog PSG, with advantages in size and speed. It delivers the performance you need—spectral purity, output power, and more—to perform module- and system-level testing.

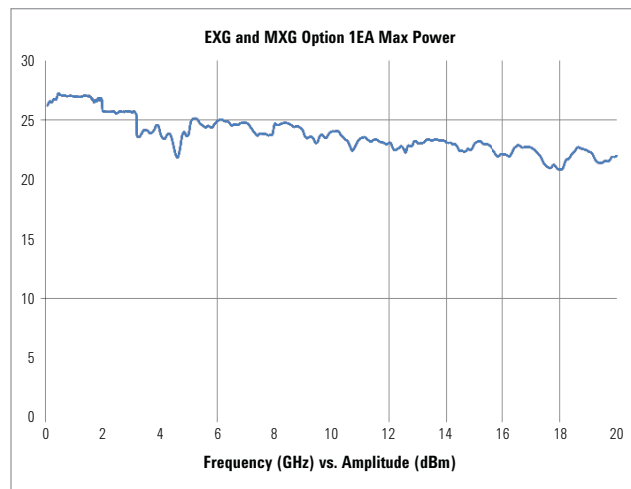
- Meet test system needs up to 13, 20, 31.8, or 40 GHz
- Address demanding tests of radar modules and systems with best-in-class phase noise of ≤ 124 dBc/Hz (10 kHz offset) with -75 dBc spurious (at 10 GHz)
- Save space and maintain test rigor with near-PSG performance levels in just two rack units
- Accelerate your calibration process with best-in-class switching speed of less than 600 μ s



Balance budget and performance with EXG

The EXG is the cost-effective choice when you need to balance budget and performance. In just two rack units, it provides the essential signals that address parametric testing of broadband filters, amplifiers, receivers, and more.

- Perform basic LO upconversion or CW blocking with low-cost coverage to 13, 20, 31.8, or 40 GHz
- Characterize broadband microwave components such as filters and amplifiers with the best combination of output power (+20 dBm at 20 GHz), low harmonics (≤ 55 dBc), and full step attenuation
- Use as a high-stability system reference with standard high-performance OCXO at an aging rate of less than $\pm 5 \times 10^{-10}$ parts per day
- Shrink your test stand with optional integrated multi-function generator and USB power sensor interface



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