

2500B Microwave Signal Generator

100 kHz to 50 GHz

*Now with more options and
new lower prices!*

Key Features

- 100 kHz to 50 GHz
- Output Power +20 dBm at 20 GHz, +11 dBm at 50 GHz
- Fast-Switching, < 500 μ s per point
- Ultra-Low Phase Noise (Phase Noise -109 dBc/Hz at 10 GHz, 10 kHz offset)
- Harmonics < -60 dBc, Spurious < -58 dBc
- AM, FM, ϕ M, Pulse Modulation

Introduction

The 2500B series Microwave Signal Generators provide state-of-the-art performance with fast switching speed and high output power without any compromise in signal purity. With frequency ranges to 50 GHz, the 2500B series Microwave Signal Generators are fast, easy-to-use, super clean and loaded with features including high-stability time base, fine resolution, multiple sweep modes and a full suite of analog modulation capabilities.

Benefits

- Low phase noise and spurious means clean pure signals to meet your most challenging test needs
- High output power overcomes losses in cables and signal switching
- Fast switching improves test speed and provides agility for signal simulation applications



Optimized for Automated Test

Automation Xpress software is included with the new 2500B model Microwave Signal Generators, enhancing the ability of ATE integrators to control and configure the signal generators to address their specific needs. AX enables easy downloads of complex lists and setup and modification of parameters, all in a familiar windows-based application. A comprehensive list mode, command-line interpreter with script and loop capability, and an auto-programming capability are just a few of the features that test system programmers will appreciate when developing and debugging Test Program Sets.



High Output Power

The Giga-tronics 2500B Output Power is noteworthy with +11 dBm at 50 GHz and +20 dBm at 20 GHz. For those applications that require much higher power, Giga-tronics offers a line of companion microwave power amplifiers offering +40 dBm to 10 GHz, +35 dBm to 20 GHz, +27 dBm to 40 GHz and +23 dBm to 50GHz. Mechanical step attenuators are available as an option on all models. A 110 dB range electronic attenuator option is available on the 2.5 GHz and 8 GHz models specifically designed for RFIC test applications where fast amplitude switching is required over a wide dynamic range.



Key Specifications:

- 100 kHz to 50 GHz, with 0.001 Hz resolution
- 500 μ s per point switching speed
- Max leveled output power +20 dBm at 20 GHz, +11 dBm at 50 GHz
- Time base stability $< 5 \times 10^{-10}$ /day
- Phase noise < -109 dBc/Hz typical at 10 GHz and 10 kHz offset
- Harmonics and spurious < -58 dBc
- AM, FM, ϕ M, Pulse Modulation

Applications

The 2500B series is focused on the many applications in aerospace and defense, commercial communications including satellite and microwave link, and microwave component test that require signal generators with analog modulation; AM, FM, phase and pulse. These measurement situations also generally require high signal purity including low phase noise and low harmonics, sub-harmonics and spurious. In addition, fast switching speed is important for signal simulation applications as well as lowering test time and improving productivity.

About Giga-tronics:

Founded in 1980, Giga-tronics Incorporated (Nasdaq "GIGA"), an ISO 9001 and AS 9100 certified company, headquartered in San Ramon, California, is a leading engineering-and-design manufacturer of best-in-class RF and microwave signal generators, microwave power amplifiers, USB power sensors, microwave power meters and broadband switching matrices. R&D, production and test managers, scientists, engineers and technicians, around the world, use Giga-tronics test equipment to realize higher productivity and greater ease of use in many applications: ATE systems, aerospace & defense, communications and general microwave component test.



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