

GIGA-TRONICS

2520B

The Giga-tronics 2520B is a high-performance 20 GHz microwave signal generator designed for RF and microwave test and measurement applications, particularly in automatic test equipment (ATE) environments. Utilizing Advanced Synthesizer Technology, it provides exceptional close-in and ultra-low phase noise performance. The instrument offers comprehensive analog modulation capabilities, fast frequency switching, and comes equipped with the Automation Xpress software package for streamlined system integration.

SPECIFICATIONS

Frequency

Minimum Frequency	2 GHz (100 kHz with Option 18) Hz
Maximum Frequency	20 GHz Hz
Frequency Resolution	0.001 Hz

Output

Phase Noise	-109 dBc/Hz at 10 kHz and 100 kHz offset (10 GHz carrier)
-------------	---

General

Reference Oscillator	10 MHz
----------------------	--------

Frequency Specifications

Low Frequency Extension	100 kHz to 2 GHz (Option 18)
Fast Frequency Switching Speed	Available (Option 29)

Spectral Purity and Phase Noise

SSB Phase Noise (100 Hz offset)	-77 dBc/Hz (at 10 GHz carrier)
SSB Phase Noise (1 kHz offset)	-96 dBc/Hz (at 10 GHz carrier)
SSB Phase Noise (10 kHz offset)	-109 dBc/Hz (at 10 GHz carrier)
SSB Phase Noise (100 kHz offset)	-109 dBc/Hz (at 10 GHz carrier)
Ultra-Low Close-in Phase Noise	Available (Option 28)

Amplitude and Output Power

Maximum Output Power with High Power Option	Available (Option 20)
Step Attenuator Range Option	90 dB Mechanical Step Attenuator (Option 26A)

Analog Modulation (AM / FM / Phase)

Internal and External Modulation Suite	Includes internal function generator (Option 17A)
External Modulation Suite	Available (Option 17B)

Software and Control

Software Integration	Spanawave/Giga-tronics Automation Xpress (PC-based) included
----------------------	--

Interfaces and Connectivity

RF Output Connector Rear	Move to Rear Panel (Option 22)
RF Output Connector Type	Type-N Connector available via Option 23

Physical and Power

Blank Front Panel	Available (Option 44, requires Option 22)
Rack Slide Kit	Available (Option 46)

Outputs

Output Impedance	50 Ω
------------------	------

Inputs & Outputs

Reference Input Frequency	10 MHz
Reference Output Frequency	10 MHz

TECHNOLOGY

Synthesized Microwave Signal Generator

APPLICATIONS

RF and Microwave Test and Measurement, Automatic Test Systems (ATE), Radar and Communications Testing

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