

Miniature Signal Generators SG Series

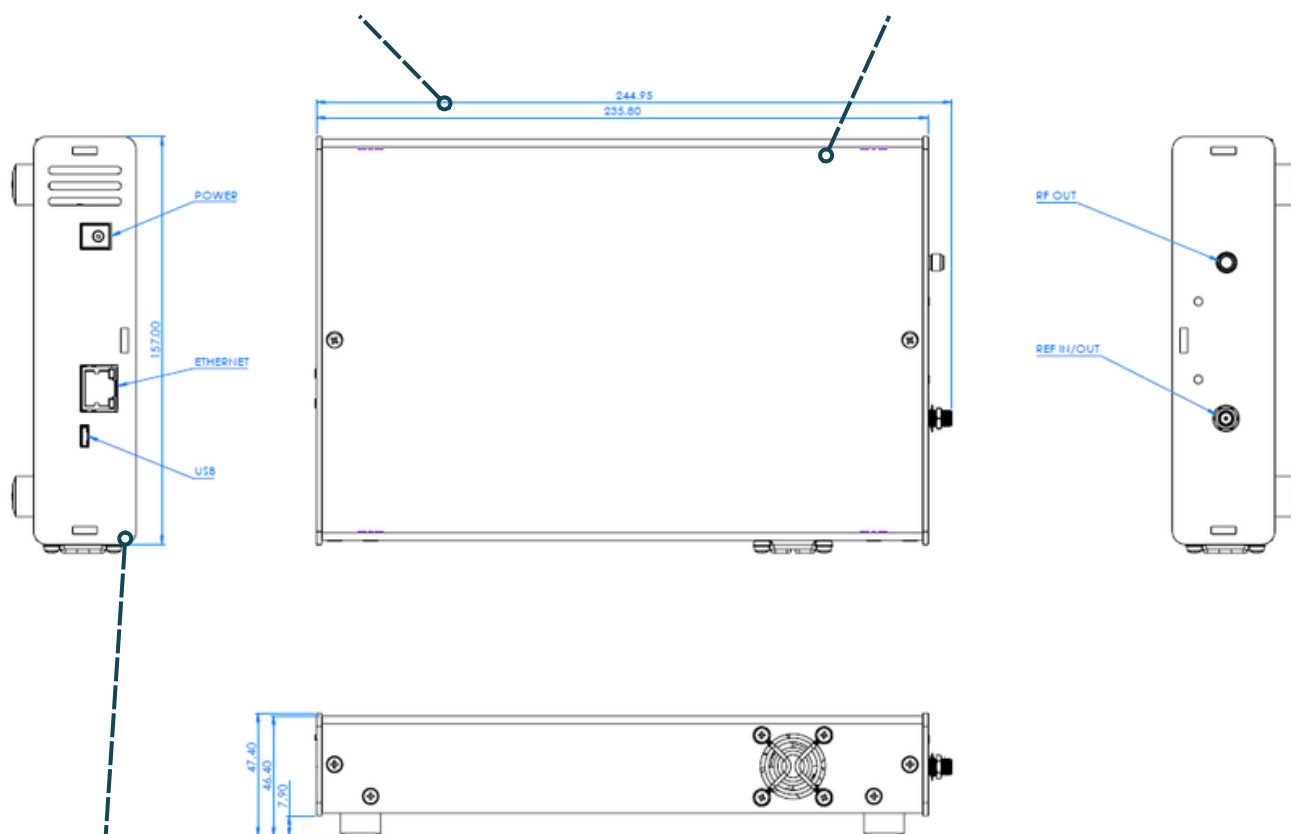
The SG series of Miniature Signal Generators are supplied with control software, USB to mini USB cable and AC power supply adaptor.

10MHz - 15GHz

Operating frequency range

High Output

+13dBm from 10MHz to 13GHz



USB, Ethernet and RS-232 Interface

External or Internal (+/-1ppm) Reference

- Full Range Tuning
- Frequency & Level Control
- Non-Volatile Memory
- RoHS Compliant

RF Performance						
Frequency Range	10 - 15000 MHz					
Frequency Step Size	1Hz for <6GHz, 10Hz for 6-15GHz					
Output Power Level	+13dBm 10MHz - 13GHz +10dBm 13GHz - 15GHz					
Output Range	+13dBm to -17dBm, 0.5dB Steps (output level set in dBm), < 3GHz +10dBm to -17dBm, 0.5dB Steps (output level set in dBm), 3-6GHz					
Internal Reference	100MHz OCXO, 50 ppb					
Phase Noise Max (dBc/Hz)	Frequency	100Hz	1kHz	10kHz	100kHz	1MHz
	10 - 250MHz	-115	-120	-132	-140	-150
	250 - 1000MHz	-105	-115	-125	-130	-135
	1000 - 3000MHz	-95	-105	-115	-120	-125
	3000 - 6000MHz	-90	-100	-110	-115	-120
	6000 - 15000MHz	-82	-92	-102	-105	-110
Spurious	Maximum: < -50dBc, Typical: < -70dBc					
Harmonics	Maximum: -20dBc, Typical: -25dBc (50MHz-15GHz)					
RF Output connector	SMA Female					
Reference Connector	SMA Female Reference Input / Output autodetect and switch 100MHz Output Selectable 10 or 100MHz input (software programmable frequency) @ -4 to +12dBm					

Interface	
Control Interface	USB: Virtual COM port Ethernet: RJ45 connector
Output Modes	Continuous or Sweep
External Trigger	Manual trigger via GUI
Status Indicators	Power RF Output
PC User Interfaces	Third-part terminal application (e.g. HyperTerm): • ASCII commands Graphical User Interface Executable File: • Adjust frequency and output power level • Set reference frequency • Select operation mode • Set power-on defaults • Adjust sweep configuration • Change device network settings • Control multiple units
Internal Memory	Non-volatile, automatically stores most recent settings

Power	
Power Input	9 - 28V DC 12V, 3.0A AC adaptor with 1.20m lead included Current consumption: 300mA typ. at 12V

Environmental	
Operating Temperature	-20 to +50C
Storage Temperature	-40 to +85C

Mechanical	
Dimensions	157mm x 245mm x 47mm approx.
Weight	<300g
Material	White coated aluminium Rubber Feet

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.