

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.	25 - 6000MHzFull Range Tuning
Operating frequency range 25—6000MHz Ethernet Control	Frequency & Level Control USB, Ethernet and RS-232 Interface External or Internal (+/-1ppm) Reference Non-Volatile Memory ROHS Compliant
High Output, +13dBm up to 3 +10dBm between	
* Image Representative of Range	

RF Performance				
Frequency Range	25 - 6000MHz			
Frequency Step Size	100Hz			
Output Power Level	+13dBm, < 3GHz +10dBm, 3-6GHz			
Output Range	+13dBm to -17 dBm, 0.5dB Steps (output level set in dBm), < 3GHz +10dBm to -17 dBm, 0.5dB Steps (output level set in dBm), 3-6GHz			
Internal Reference	100MHz, ±20ppm over temperature, ±1ppm per year (±3ppm in 1st year)			
Phase Noise Max (dBc/Hz)	Frequency 25 - 250MHz 250 - 1000MHz 1000 - 3000MHz 3000 - 6000MHz	1KHz Offset -98 -92 -83	10KHz Offset -106 -96 -94 -85	100KHz Offset -112 -106 -101 -92
Spurious	Maximum: < -50dBc, Typical: < -70dBc			
Harmonics	Maximum: -20dBc, Typical: -25dBc			
RF Output connector	SMA Female			
Reference Connector	SMA Female Reference Input / Output autodelect and switch 100MHz Output Selectable 10 or 100MHz input (software programmable frequency) @ -4 to +12dBm			
Power				
Power Input	9 - 28V DC 12V, 3.0A AC adaptor with 1.20m lead included Current consumption: 300mA typ. at 12V Can be powered also via USB3.0, current consumption: 860mA typ. at 5V			
Power Selection	Automatic Switching Coaxial Power jack selected by default USB power used when coaxial power not present USB power used when coaxial power not present			

Options:

OPT06 ASG Mounting Bracket Pair - Supplied fitted to the unit

Interface				
Control Interface	USB: Virtual COM port RS-232: 9-pin male D-sub connector Ethernet: RJ45 connector			
Output Modes	Continuous Sweep On/Off via external trigger			
External Trigger	Pin 4 of RS-232 connector: Pulse TTL/RS232 levels, 50ms min. pulse width Manual trigger via GUI			
Status Indicators	Power Lock RF Output Reference Out			
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			
Environmental				
Operating Temperature	erature -20 to +50C			
Storage Temperature	-40 to +85C			
Mechanical				
Dimensions	163mm x 103mm x 30.5mm			
Weight	350g			
Material	Aluminium extrusion Aluminium endplates with black legend 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.













