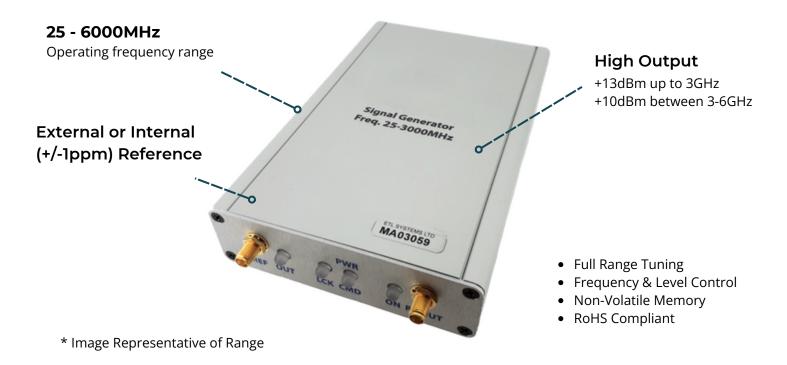


## **Miniature Signal Generators SG Series**

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





**V2.1 E&OE** 



		RF Performance		
Frequency Range	25 - 6000 MHz			
Frequency Step Size	1Hz			
Output Power Level	+13dBm, < 3GHz +10dBm, 3-6GHz			
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, ±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 autodetect and switch 100MHz Output Selectable 10 or 100MHz input (software programmable frequency) @ -4 to +12dBm			

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		



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			

Environmental		
Operating Temperature	-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	

Options: Optional product OPT06 is a Mounting Bracket Pair - Supplied fitted to the unit.

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.