

## **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.



## SG03-840001-S5S5

- 25 3000MHz
- Full Range Tuning
- Frequency & Level Control
- USB, Ethernet and RS-232 Interface
- External or Internal (+/-1ppm) Reference
- Non-Volatile Memory
- **RoHS Compliant**

	RF Perfo	rmance		
Frequency Range		25 - 3000N	ЛНz	
Frequency Step Size		1Hz		
Output Power Level		+13dBn	n	
Output Range	+13dBm to -	17dBm, 0.5dB Steps	(output level set ir	n dBm)
Internal Reference	100MHz, +/	-1ppm over temper	ature, +/-1ppm per	year
Phase Noise Max (dBc/Hz)	Frequency 25 - 250MHz 250 - 1000MHz 1000 - 3000MHz	1KHz Offset -98 -92 -83	10KHz Offset -106 -96 -94	100KHz Offset -112 -106 -101
Spurious	Ma	ximum: < -50dBc, T	ypical: < -70dBc	
Harmonics	N	laximum: -20dBc, T	ypical: -25dBc	
RF Output connector		SMA Fem	ale	
Reference Connector	Referen Selectable 10 or 100MHz i	100MHz Ou	utodetect and switch	

	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:	
OPT01	+20dBm output level (in 19" x 1U)
OPT02	Rechargeable Battery Powered (not with 19" x 1U)
OPT03	Portable Bench Instrument – 260 x 150 x 420 mm
OPT04	Ruggedised Portable Instrument – 380 x 310 x 245mm
OPT05	Weatherproof ODU – 360 x 210 x 95 mm (remote control only)
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		

Storage Temperature	e Temperature -40 to +85C	
Mechanical		
Dimensions	163mm x 103mm x 30.5mm	
Weight	350g	
Material	Aluminium extrusion Aluminium endplates with black legend Rubber Feet	

Environmental

-20 to +50C

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











Operating Temperature



