

## **50MHz-2.5GHz Modular Noise Generator**

NG-G1S-B3-03-S5S5 50-2500MHz Noise Generator housed in the Genus 1U chassis. Covering frequency range 50MHz to 2.5GHz in a single band, offering flexibility in a compact and lightweight housing. Remotely controllable via webpage through ethernet port or locally controllable using HMI touchscreen.

- Ideal for precision applications
- Optional External Reference
- Compact 1U chassis
- Remote/Local Control



Chassis - Specification			
Dimensions / Weight / Colour	1U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)		
Capacity	Total of 17 module slots. Note that 1 slot will be used for fan (if required) and 1 slot will be used for 10 MHz EXT inject module (if required).		
Modules per chassis	17 max (dependant upon configuration).		
Temperature	Operating: -20°C to +60°C / Storage: -40°C to +90°C		
Location / Humidity / Altitude	Indoor use only / 20 to 90% non-condensing / 10,000 feet AMSL (Operational) 30,000 feet AMSL (Storage) Above Mean Sea Level		
Control & Monitoring	Local: HMI touch screen Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. TCP/IP, SNMP V3 & HTTPS & Web browser interface  HMI and CPU field replaceable. Each module independently monitored and reported.		
MTTR	20 minutes (15 minutes to retrieve spare part and 5 mins to replace) Applies to LRUs only and assumed in house stock		
AC Input / Consumption	85-264Vac 50/60Hz / 150 W		
PSU Redundancy	Dual redundant and alarmed. Hot swappable		
Input & Output ports	Reference; SMA Output; SMA		

















Noise Generator Module - RF Parameters			
Frequency	Min	50 MHz	
	Max	2.5 GHz	
Number of RF Ports		2	
Maximum Output Power	50MHz-2500MHz	10 ± 5 dBm	
	Noise Power Spectral Density	-84 ± 5 dBm/Hz	
Attenuation Control Range	Specification Control Range	60dB	
	Available Control Range	85dB	
Attenuation Steps		0.25 ± 0.25 dB	
Attenuator type		Glitch & Dropout free	
Output Power Flatness		±3 dB	
Signal Inject Port Loss		20 dB	
Output Port Return Loss	Тур	14 dB	
	Min	10 dB	
Input Port Return Loss	Тур	14 dB	
	Min	10 dB	
Output Power When Muted		-160 dBm/Hz	
		Interface	
Control Method		Via chassis	
Number of Modules Per Chassis		16	
Output Connector		SMA (F) or BNC(F)	
Input Connector (Optional)		SMA (F) or BNC (F)	
Maximum Voltage Applied to the Output Connector		50V DC	
		Environmental Conditions	
Operating Temperature		0 to 50°C	
Storage Temperature		-20°C to +75°C	
Location		Indoor use only	
Humidity		20 to 90% non-condensing	
Altitude		10,000ft/3000m AMSL	
	Phys	ical Dimensions & Parameters	
Weight		TBA kg	

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.













