

Ka Band Satellite Simulator

The LSS series of Satellite Simulators enable RF testing of mobile satellite communications systems without the need for cabling and with true portability for optimum equipment location.

- Cable-less RF Test Solution
- Dual Polarity
- Ka Band (Ku and DBS available)
- Totally Portable
- Battery Powered
- Self Contained Operation



General Specification

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Operating Band	Ka-band
Polarisation	LH & RH Circular
Internal Conversion Gain	-35dB nom
Uplink Antenna Gain	15dB nom
Downlink Antenna Gain	15dB nom
Attenuation Range	0-30dB
Attenuation Steps	Continuously variable
Attenuation Control	10 turn dial, manual
Internal Reference	10MHz
Temperature Stability	0.002PPM over 0+40C
Aging	0.03PPM/year
Signal Related Spurious	-25dBc typ.
LO Related Spurious & Harmonics	-30dBm typ
Non Signal or LO Related Spurious	-60dBc min
Rear Panel	Uplink and Downlink Antennas
Internal Battery	12V, 14AH
Recharging Connector	3 Pin XLR
Housing Style	Instrument with Tilt Handle



Phase noise dBc/Hz (typical)		
Offset Frequency	LO Frequency (GHz)	
	9.80	10.30
100Hz	-55	-56
1KHz	-90	-90
10KHz	-100	-100
100KHz	-110	-110
1MHz	-120	-120
Environmental		
Location	Portable	
Power		
Charge Power	100-240V 50/60Hz input (internal and external options)	
Internal Battery	12V, 14AH	
Physical		
Dimensions	260 x 150 x 420mm	
Front Panel	On/off switch Dual Attenuation Controls Battery Charge Connector LO Lock Status LED	

Options: SS01 Two Part Option - Ethernet Only SS02 Internal Battery Charger 100-240V, 50/60Hz input SS03 Switchable Internal 10MHz OCXO Reference (Frequency Stability, +/-0.05ppm over 0 to +50C, +/-0.1ppm per year) SS04 LCD Display and Digital Attenuator (Ethernet Control). SS05 Linear Polarisation Antenna SS06 Circular Polarisation Antenna SS07 One Part Option - Ethernet only

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.

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