

Lab Brick® LSG Signal Generators



- USB powered and controlled
- Includes easy to install and use GUI
- Programmable frequency stepping
- Operate multiple devices directly from a PC or self-powered USB hub
- Autonomous operation from USB hub or battery pack
- Easily programmable for ATE applications
- Robust aluminum construction
- Customization available for unique requirements
- API DLL and LabVIEW compatible drivers available

The Lab Brick LSG Signal Generators cover frequencies from 20 MHz to 6 GHz with high output levels and excellent spectral purity. They require no additional DC supply voltage and offer several operating modes, including continuous-wave (CW) and swept-frequency. GUI software can track and control several connected signal generators, simplifying multiple-signal test setups. Each device stores settings in internal memory, allowing it to power up in a specific instrument state.

Applications include:

- Automated Test Equipment (ATE)
- Portable LO Source
- Engineering/Production Test Lab

Model	Description	Phase Noise @ 10/100kHz offset	Output Power (dBm)
LSG-121	20 to 120 MHz	-105/-125	+10 to -45
LSG-251	50 to 250 MHz	-105/-125	+10 to -45
LSG-451	70 to 450 MHz	-105/-125	+10 to -45
LSG-152	250 to 1500 MHz	-95/-115	+10 to -45
LSG-222	500 to 2200 MHz	-90/-110	+10 to -45
LSG-402	1000 to 4000 MHz	-85/-105	+10 to -45
LSG-602	1500 to 6000 MHz	-75/-95	+10 to -40

Frequency

Resolution	100 kHz
Accuracy	±2 PPM
Switching	10 ms

Spurious

Typical	-80 dBc
Maximum	-70 dBc

VSWR (max)

1.5:1

Harmonics (max)

-10 dBc

Standard Operating Modes

Fixed frequency
Frequency stepping - single sweep
Frequency stepping - repeat sweep

Available Options

Opt 001	External reference
Opt 002	+13 dBm output power

RF Connector

SMA-female

USB Connector

miniB-female

Dimensions

4.90 x 3.14 x 1.59 in.
(124 x 80 x 40 mm)

Weight

< 1.0 lbs. (< .45 kg)

Included Accessories

USB Flash Drive with GUI Software & User Manual/Programming Guide
6' Type miniB-female Cable

1. Customized models are available tailored to specific performance requirements.

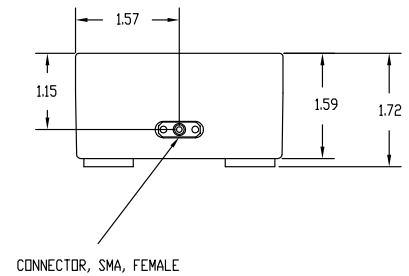
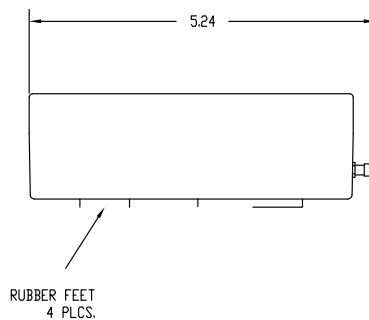
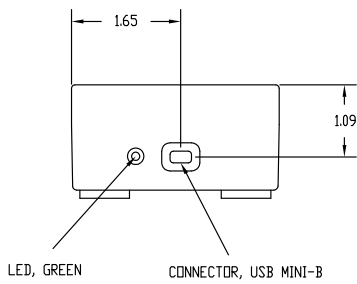
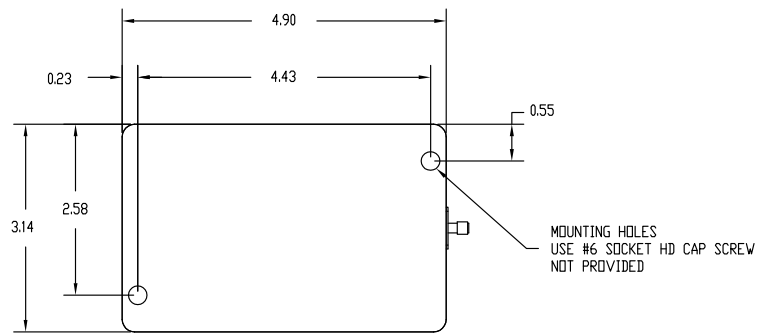
2. Output power capability to +26 dBm on select models.

Specifications are subject to change without notice.



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See performance graphs online at www.vaunix.com



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