

General

LSG-16 is a very versatile solid-state, wide-band signal generator designed for the radio experimenter, hobbyist, service technician and instructional purposes. An FET is used in a stable oscillator circuit to cover the frequency range from 100kHz to 100MHz on fundamentals and up to 300MHz on harmonics. Among the many features are the large easy-to-read dial marked at 455kHz, 4.5MHz and 10.7MHz, one audio frequency for amplitude modulation or external use, provision for crystal oscillator operation and coaxial output cable. Serves as a marker generator when used with a sweep generator in checking and aligning RF and IF circuits in TV and FM receivers.

SECTION 1 SPECIFICATIONS

Frequency Range	:	100kHz to 100MHz (up to 300MHz on harmonics)
Band	:	A 100 – 320kHz B 320 – 1100kHz C 1.05 – 3.3MHz D 3.2 – 11MHz E 11 – 35MHz F 30 – 100MHz (90-300MHz, calibrated harmonics)
Frequency Accuracy	:	$\pm 1.5\%$
RF Output	:	100mVrms, approx., up to 35MHz.
Output Control	:	HIGH-LOW switch and fine adjuster.
Modulation	:	Int.: 1kHz at 30%, or higher. Ext.: 50Hz-20kHz, at less than 1Vrms

	input.
Audio Output	: 1kHz; 1Vrms, maximum (fixed).
Crystal Oscillator	: For 1 - 15MHz crystal in Type FT-243 holder. (not included).
Power Supply	: 100, 115 or 230V as specified, 50/60Hz; approx. 3VA.
Size and Weight	: 150 (H) × 250 (W) × 130 (D) mm; 2.5kg. (6" × 10" × 5"; 5.5 lbs.)

SECTION 2

DESCRIPTION

2.1 Controls

1. Frequency dial Sets the RF output frequency in the range selected with **FREQ RANGE** switch.
2. **FREQ RANGE** switch with six positions for RF output frequency range.
3. **XTAL** socket For insertion of quartz crystal, 1-15MHz, in Type FT-243 holder.
4. **PWR** switch For tuning on the AC power.
5. **Pilot lamp** Indicates when AC power is on.
6. **Mode switch** **EXT MOD**: For modulation of carrier with an external source.
INT MOD: Use of internal 1kHz for modulation or external circuit testing.
XTAL: Crystal oscillator output; frequency depends on crystal used.