

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

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	input.
Audio Output	: 1kHz; 1Vrms, maximum (fixed).
Cyrstal 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.

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