

RF & AUDIO GENERATORS

Models **SG-9500** and **SG-9000** are stable high frequency generators capable of AM modulation. They are primarily designed for work on AM and FM radio receivers, but can be used in any project requiring a modulated RF signal.

Models **SG-9200** and **SG-9300** are low cost audio generators featuring very low distortion sine wave and a rapid-rise square wave. All models have vernier frequency control for easy tuning and switchable high-low output levels.

Wide Band RF Signal Generators



Model SG-9000 RF Generator



Model SG-9500 RF Generator w/ Counter

Audio Generators



Model SG-9200 Audio Generator



Model SG-9300 Audio Generator w/ Counter

Models **SG-9300** and **SG-9500** have built-in frequency counters which are switchable to measure external frequencies up to 150MHz.

Features SG-9000 / SG-9500

- RF frequencies continuously variable 100kHz to 450MHz in 6 ranges.
- Output RF voltage variable and has 20dB attenuator switch.
- Internal AM modulation of 1kHz.
- Audio 1kHz signal available at output.
- External crystal locks oscillator to your frequency between 1-15MHz.
- 455kHz, 4.5MHz and 10.7MHz specially noted for easy setting.

Specifications: SG-9000 / SG-9500

Frequency on 6 ranges 100kHz to 150MHz (450MHz on harmonics):
 Band A 100kHz - 300kHz Band D 3MHz - 10MHz
 Band B 300kHz - 1000kHz Band E 10MHz - 35MHz
 Band C 1MHz - 3.2MHz Band F 32MHz - 150MHz
 Harmonics 96MHz - 450MHz

Frequency accuracy: (SG-9000)..... ± 3% dial accuracy
 (SG-9500)..... ± count accuracy, ± 1 digit

RF output approximate:..... 100mV to 35MHz

Crystal output:..... 1-15MHz uses HC 6/U holder (not included)

Output attenuator:..... Hi-Lo Sw with fine adjustment

Modulation internal:..... 1kHz (AM) 30% approximate

Modulation external:..... 50Hz - 20kHz at less than 1Vrms input

Audio output:..... 1kHz min. at 1Vrms

Power:..... 120V/220V, 50/60Hz

Dimensions: (SG-9000)..... 7" (H) x 10" (W) x 6" (D)

(SG-9500)..... 5" (H) x 8 1/2" (W) x 8 1/2" (D)

Weight: (SG-9000)..... 5 lbs., 14 oz.

(SG-9500)..... 5 lbs., 12.2 oz.

Accessories: Detachable line cord, BNC to insulated clip output cable, instruction manual.

Specifications: SG-9200 / SG-9300

Sine Wave

Frequency range:..... 10Hz - 1MHz (5 decade bands)

Frequency accuracy: (SG-9200)..... ±3% +2Hz

(SG-9300)..... ± count accuracy ±1 digit

Output distortion: (SG-9200)..... 500Hz - 50kHz less than 0.05%

50Hz - 500kHz less than 0.5%

(SG-9300)..... 500Hz - 50kHz less than 0.1%

50Hz - 500kHz less than 0.5%

Output voltage:..... 8Vrms 600Ω impedance

Output flatness:..... ±1dB (1kHz)

Square Wave

Frequency range: (SG-9200)..... 10Hz - 10kHz

(SG-9300)..... 10Hz - 20kHz

Output voltage:..... 10Vpp max.

Rise time:..... 0.5 μsec.

Power:..... 120/220VAC, 50/60Hz

Dimensions: (SG-9200)..... 7" (H) x 10" (W) x 6" (D)

(SG-9300)..... 5" (H) x 8 1/2" (W) x 8 1/2" (D)

Weight: (SG-9200)..... 5 lbs., 14 oz.

(SG-9300)..... 5 lbs., 12.2 oz.

Specifications: SG-9300 / SG-9500 Freq. Counter

Frequency range:..... 10Hz - 150MHz in 2 ranges

Accuracy:..... ± 1 count, ±reference time

Resolution:..... 1Hz or 10Hz

Gate time:..... 0.1 sec, 1 sec

Input sensitivity:..... Less than 50mVrms

Input impedance:..... HF 1MΩ VHF 50Ω

Reference time frequency:..... 10MHz

Reference time accuracy:..... 5 x 10⁻⁵ (50ppm) 0° - 40°C

1 x 10⁻⁵ (10ppm) 23°C ±3°C

Operation temp:..... 0-40°C

Digital display:..... 6 digit 0.56" LED