

150MHz RF GENERATOR



GRG-450B (150MHz)

The GRG-450B comes right on the spot for applications requiring even higher frequency: up to 450MHz on harmonics. The panel operation is user-friendly and effective, represented by the large main meter which allows seeing the target frequency at a glance. If extra sensitivity is required, The GRG-450B can connect the monitor output to an external device such as a digital frequency counter. The frequency range is divided into seven zones with dial access, giving shortcuts to different application ranges. AM modulation and the associated audio output are enabled using a built-in modulator or input from an external device. Gain adjustment is available in fine mode, coupled with a handy high/low range selection feature. Compact size at, 247 (W) x 158 (H) x 140 (D) mm, and light weight 2.5kg, allow the GRG-450B to be carried around anytime, and to be used at anywhere.

FEATURES

- * Frequency Range from 100kHz ~ 150MHz (up to 450MHz on Harmonics)
- * Int/Ext AM Modulation, 0 ~ 100%
- * Frequency Monitor Output for EXT Frequency Counter

| SPECIFICATIONS | |
|--|---|
| MAIN OUTPUT | |
| Frequency | 100kHz ~ 150MHz (up to 450MHz on harmonics) |
| Range | A 100 ~ 290kHz B 290 ~ 900kHz C 0.9 ~ 3.0MHz D 3.0 ~ 11MHz E 10 ~ 35MHz F 32 ~ 150MHz (96 ~ 450MHz, calibrated harmonics) |
| Accuracy | ±5% |
| Level | 100mVrms approximately up to 35MHz |
| Level control | High/Low switchable and fine control |
| AMPLITUDE MODULATION | |
| Internal | Frequency: 1kHz Percentage: 30% max and adjustable |
| External | Frequency: 50Hz to 20kHz Sensitivity: < 1Vrms |
| AUX OUTPUT | |
| Audio Output Frequency: 1kHz Level: 1 Vrms MIN, fixed | |
| FREQUENCY MONITOR | |
| Frequency: Oscillation frequency Level: 50mVrms MIN | |
| POWER SOURCE | |
| AC 100/115/230V ±10% , 50/60Hz | |
| DIMENSIONS & WEIGHT | |
| 247(W) x 158(H) x 140(D)mm, Approx. 2.5kg | |

ORDERING INFORMATION

GRG-450B 150MHz RF Generator
ACCESSORIES :
User manual x 1, Power cord x 1, Test lead GTL-110 x 1

AUDIO GENERATOR



GAG-809/810 (1MHz)



The GAG-809/810 provide a convenient solution for low frequency (< 1MHz) signal generation, specifically for audio bandwidth. Intuitive and simple panel interface provides quick frequency and amplitude adjustment, with dial/key shortcuts to different ranges. Square wave generation covers digital application in addition to the traditional analog using sine waves. Distortion is kept at minimum level, especially at the audible frequency range: 0.02% or less distortion factor for 500Hz~20kHz. The external synchronization signal input helps collaborating with other measurement devices.

FEATURES

- * Frequency from 10Hz ~ 1MHz
- * 0.02% Low Sine wave Distortion (GAG-810 Only)
- * 6 Steps Output Attenuator
- * EXT SYNC Function

| SPECIFICATIONS | |
|--|---|
| SINE WAVE CHARACTERISTIC | |
| Frequency Range | 10Hz ~ 1MHz, 5 Ranges |
| Frequency Indicator | Dial Scale |
| Frequency Accuracy | ± 3% + 1Hz (at x10, x100) |
| Output Voltage | 5 Vrms (600 load) |
| Frequency Response | 10Hz ~ 1MHz ±0.5dB (at 600 load) Reference Frequency (1kHz) |
| Distortion Factor | 500Hz ~ 20kHz : ≤0.02% (GAG-809 : ≤0.1%) 100Hz ~ 100kHz : ≤0.05% (GAG-809 : ≤0.3%) (x 10 range for 100Hz, x 1k range for 100kHz) 50Hz ~ 200kHz : ≤0.3% 20Hz ~ 500kHz : ≤0.5% 10Hz ~ 1MHz : ≤1.5% |
| SQUARE WAVE | |
| Output Voltage | ≥ 10Vpp (no load) |
| Overshoot | ≤ 2% (at 1kHz, max output) |
| Rise & Fall Time | < 200nS |
| Duty Ratio | 50%±5% |
| EXT. SYNCHRONIZATION | |
| Synchronizing Range | ±1%/Vrms |
| Max. Allowable Input | 15V (DC + AC peak) |
| Input Impedance | 150k |
| OUTPUT | |
| Output Impedance | 600 |
| Output Attenuator | 0, -10, -20, -30, -40, -50dB 6 ranges (accuracy ±1dB at 600 load) |
| POWER SOURCE | |
| AC 100/120/220/230V ±10% , 50/60Hz | |
| DIMENSIONS & WEIGHT | |
| 130(W) x 210(H) x 292(D)mm , Approx 3 kg | |

ORDERING INFORMATION

GAG-809 1MHz Audio Generator
GAG-810 1MHz Audio Generator with 0.02% Low Sine Wave Distortion
ACCESSORIES :
User Manual x 1, Power cord x 1, Test lead GTL-103 x 1

Combined Test Solutions,
4 Commerce Way, Stanbridge Road,
Leighton Buzzard, LU7 4RW

T: 01525 374466
E: sales@ctstest.co.uk
W: www.ctstest.co.uk

