

# RF Generator / Audio Generator



## GRG-450B (RF GENERATOR)

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

## GAG-809/810

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

### SPECIFICATIONS

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<b>MAIN OUTPUT</b>	
<b>Frequency</b>	100kHz ~ 150MHz (up to 450MHz on harmonics)
<b>Range</b>	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)
<b>Accuracy</b>	±5%
<b>Level</b>	100mVrms approx up to 35MHz
<b>Level control</b>	High/Low switchable and fine control
<b>AMPLITUDE MODULATION</b>	
<b>Internal</b>	Frequency: 1kHz Percentage: 30% max and adjuster
<b>External</b>	Frequency: 50Hz to 20kHz Sensitivity: less than 1Vrms
<b>AUX OUTPUT</b>	Audio Output Frequency: 1kHz Level: 1 Vrms MIN, fixed
<b>FREQUENCY MONITOR</b>	Frequency: Oscillation frequency Level: 50mVrms MIN
<b>POWER SOURCE</b>	AC 100/115/230V ±10% , 50/60Hz
<b>ACCESSORIES</b>	Power cord x 1, Instruction manual x 1, GTL-110 x 1
<b>DIMENSIONS &amp; WEIGHT</b>	247(W) x 158(H) x 140(D)mm, Approx. 2.5kg

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<b>SINE WAVE CHARACTERISTIC</b>	
<b>Frequency Range</b>	10Hz ~ 1MHz, 5 Ranges
<b>Frequency Indicator</b>	Dial Scale
<b>Frequency Accuracy</b>	±(3% + 1Hz)
<b>Output Voltage</b>	5 Vrms (600W load)
<b>Frequency Response</b>	10Hz ~ 1MHz ±0.5dB(at 600W load) Reference Frequency (1kHz)
<b>Distortion Factor</b>	500Hz ~ 20kHz 0.02% or less (GAG-809 0.1%) 100Hz ~ 100kHz 0.05% or less (GAG-809 0.3%) (x 10 range for 100Hz, x 1k range for 100kHz) 50Hz ~ 200kHz 0.3% or less 20Hz ~ 500kHz 0.5% or less 10Hz ~ 1MHz 1.5% or less
<b>SQUARE WAVE</b>	
<b>Output Voltage</b>	10Vp-p or more (no load)
<b>Overshoot</b>	2% or less (at 1kHz, max output)
<b>Rise &amp; Fall Time</b>	Less than 200nS
<b>Duty Ratio</b>	50% ±5%
<b>EXT. SYNCHRONIZATION</b>	
<b>Synchronizing Range</b>	±1%/Vrms
<b>Max. Allowable Input</b>	15V (DC + AC peak)
<b>Input Impedance</b>	150k ohm
<b>OUTPUT</b>	
<b>Output Impedance</b>	600W
<b>Output Attenuator</b>	0, -10, -20, -30, -40, -50dB 6 ranges (accuracy ±1dB at 600W load)
<b>POWER SOURCE</b>	AC 100/120/220/230V ±10% , 50/60Hz
<b>ACCESSORIES</b>	Power cord x 1 Instruction Manual x 1 Test Lead GTL-103 x 1
<b>DIMENSIONS &amp; WEIGHT</b>	130(W) x 210(H)x292(D)mm Approx 3 kg

C10

ISO-9001 & ISO-14001