### **150MHz RF GENERATOR**

## **AUDIO GENERATOR**



## GRG-450B (150MHz)

#### **FEATURES**

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

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 MODULAT	TION
Internal	Frequency: 1kHz
	Percentage: 30% max and adjustable
External	Frequency: 50Hz to 20kHz
	Sensitivity: < 1Vrms
AUX OUTPUT	
Audio Output Frequency Level: 1 Vrms MIN, fixed	
FREQUENCY MONITO	
·	
Frequency: Oscillation fr Level: 50mVrms MIN	equency
POWER SOURCE	
AC 100/115/230V ±10%	50/60Hz
DIMENSIONS & WEIGH	
247(W) x 158(H) x 140(E	
2.0 (0) × 100(0) × 10(2	
	ORDERING INFORMATION
GRG-450B 150M	IHz RF Generator
ACCESSORIES :	
User manual x 1, Power	cord x 1, Test lead GTL-110 x 1

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

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.

SPECIFICATION

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.



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**

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

SINE WAVE CHARACTERIST	IC
Frequency Range	10Hz
Frequency Indicator	Dial
Frequency Accuracy	± 39
Output Voltage	5 Vrr
Frequency Response	10Hz
	Refe
Distortion Factor	500H
	100H
	(x 10 50H;
	20H
	10Hz
SQUARE WAVE	
Output Voltage	>10
Overshoot	< 2%
Rise & Fall Time	
	< 200
Duty Ratio	50%=
EXT. SYNCHRONIZATION	
Synchronizing Range	±1%
Max. Allowable Input	15V (
Input Impedance	150k
OUTPUT	
Output Impedance	600
Output Attenuator	0, -10
	6 ran
POWER SOURCE	
AC 100/120/220/230V±10%	, 50/60Hz
DIMENSIONS & WEIGHT	
130(W) x 210(H)x292(D)mm	1, Approx 3
	OR
GAG-809 1MHz Audio	Generator
GAG-810 1MHz Audio	Generator v

SPECIFICATIONS

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

lz ~ 1MHz, 5 Ranges Scale % + 1Hz (at x10, x100) rms (600 `load) Iz ~ 1MHz±0.5dB(at 600 load) erence Frequency (1kHz) Hz ~ 20kHz : ≤0.02% (GAG-809 : ≤0.1%)  $Hz \sim 100 \text{ kHz} : \le 0.05\% (GAG-809 : \le 0.3\%)$ 10 range for 100Hz, x 1k range for 100kHz) Hz ~ 200kHz : ≤0.3% Hz ~ 500kHz : ≦0.5% z ~ 1MHz :≦1.5%

0Vpp (no load) % (at 1kHz, max output) )0nS 5%±5%

6/Vrms (DC + AC peak)

0, -20, -30, -40, -50dB nges (accuracy ±1dB at 600 load)

3 kg

#### RDERING INFORMATION