



GFG-8255A (5MHz)
GFG-8219A (3MHz)



GFG-8250A (5MHz)
GFG-8216A (3MHz)



FEATURES

- * Frequency Range: 0.3Hz ~ 3MHz (GFG-8215A/8216A/8217A/8219A)
- * Frequency Range: 0.5Hz ~ 5MHz (GFG-8250A/8255A)
- * Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output
- * External Voltage Controlled Frequency (VCF) Function
- * Duty Cycle Control with Signal Inversion Capability
- * Variable DC Offset Control
- * Two-Step (-20dBx2) and Variable attenuator
- * Built-in 6 Digit Counter with INT/EXT Function up to 150MHz (Except GFG-8215A)
- * LIN/LOG Sweep Mode (GFG-8217A/8219A/8255A)
- * INT/EXT AM/FM Modulation (GFG-8219A/8255A)
- * GCV Output for Synchronization (GFG-8219A/8255A)

The GFG-8200A product family offers a complete solution in generating signals at the frequency ranges of 3&5 MHz. All models are embedded with standard functions such as TTL/CMOS/Ramp output, External Voltage Controlled Frequency (VCF), as well as built-in 6-digit counter (except for GFG-8215A). Further versatility of Logarithmic and Linear sweep is added into GFG-8255A/8219A/8217A, while GCV output feature and AM/FM modulation are available in GFG-8255A/8219A. All these integrated functions and user-friendly operations of the GFG-8200A series are made to accommodate the applications in audio response testing, vibration testing, servo system evaluation, ultra sound applications, etc.

MODEL	GFG-8215A/8216A/8217A/8219A	GFG-8250A / 8255A
MAIN		
Frequency Range	0.3Hz ~ 3MHz (7 Range) > 10Vpp (into 50W load) -20dB 1dBx2 <-5V ~ >5V (into 50W load) 80% : 20% : 80% to 1MHz	0.5Hz ~5MHz (7 Range) > 10Vpp (into 50W load) -20dB 1dBx2 <-5V ~ >5V (into 50W load) 80% : 20% : 80% to 1MHz Continue variable 6 digit LED display
Amplitude	Continue variable 6 digit LED display	Continue variable 6 digit LED display 50W 10%+_- +_
Impedance	*GFG-8215A does not have display. 50W	
Attenuator DC Offset Duty Control Display Range Accuracy	10%+_- +_ +_ 5%+1Hz (at 3 position) *only for GFG-8215A	
SINE WAVE		
Flatness Distortion	(Specification applied from MAX. to 1/10 level) 1%, 0.3Hz ~ 200kHz THD 35dB below < 0.3dB, 0.3Hz ~ 300kHz < 0.5dB, 300kHz ~ 3MHz fundamental in all range <_ <_ <_	1%, 0.5Hz ~ 100kHz THD 30dB below (Specification applied from MAX. to 1/10 level) 0.3dB, below 500kHz 1dB, below 5MHz fundamental in all range <_ <_ <_ <_
TRIANGLE WAVE		
Linear	98%, 0.3Hz ~ 100kHz>_ 95%, 100kHz ~ 3MHz>_	98%, 0.5Hz ~ 100kHz>_ 95%, 100kHz ~ 5MHz>_
SQUARE WAVE		
Rise or Fall Time Symmetry	+_ 100nS at maximum output (into 50W load) 2%, 0.3Hz ~ 100kHz <_	+_ 50nS at maximum output (into 50W load) 2%, 1Hz ~ 100kHz <_
CMOS OUTPUT		
Rise or Fall Time Level	+_ +_ 120nS 4Vpp 1Vpp ~ 14.5Vpp 0.5Vpp adjustable <_	+_ +_ 120nS 4Vpp 1Vpp ~ 14.5Vpp 0.5Vpp adjustable <_
TTL OUTPUT		
Level Fan Out Rise or Fall Time	3Vpp>_ 20 TTL load 25nS<_	3Vpp>_ 20 TTL load 25nS<_
VCF (Voltage Cont Input	rolled Frequency)	

SELECTION GUIDE						
MODEL	GFG-8255A	GFG-8250A	GFG-8219A	GFG-8217A	GFG-8216A	GFG-8215A
DISPLAY	6 Digits LED Display					
WAVEFORM	Sing, Square, Triangle					
FREQUENCY RANGE						
LIN/LOG SWEEP	✓		✓	✓		
AM/FM MODULATION	✓		✓			
FREQUENCY COUNTER	✓	✓	✓	✓	✓	
VOLTAGE CONTROL FREQUENCY	✓	✓	✓	✓	✓	✓
GCV OUTPUT	✓		✓			
TTL/CMOS OUTPUT	✓	✓	✓	✓	✓	✓



GFG-8217A (3MHz)



GFG-8215A (3MHz)



SPECIFICATIONS		
MODEL	GFG-8215A/8216A/8217A/8219A	GFG-8250A / 8255A
FREQUENCY MODULATION (GFG-8219A/8255A)		
Deviation	0 ~ ±5%	0 ~ ±5%
MOD. Frequency	400Hz (INT), DC ~ 20kHz (EXT.)	400Hz (INT), DC ~ 20kHz (EXT.)
EXT. Sensitivity	≤ 10Vpp for 10% modulation	≤ 10Vpp for 10% modulation
FREQUENCY COUNTER (GFG-8216A/8217A/8219A/8250A/8255A)		
Int./Ext.	Switch selector	Switch selector
Range	0.3Hz ~ 3MHz (5Hz ~ 150MHz EXT.)	0.5Hz ~ 5MHz (5Hz ~ 150MHz EXT.)
Accuracy	Time base accuracy ±1 count	Time base accuracy ±1 count
Time Base	± 20ppm (23 °C ± 5 °C) after 30 minutes warm up	± 20ppm (23 °C ± 5 °C) after 30 minutes warm up
Resolution	The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz	The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz
Input Impedance	1M // 150pF	1M // 150pF
Sensitivity	≤ 35mVrms (5Hz ~ 100MHz) ≤ 45mVrms (100MHz ~ 150MHz)	≤ 35mVrms (5Hz ~ 100MHz) ≤ 45mVrms (100MHz ~ 150MHz)
POWER SOURCE		
	AC115V, 230V ± 15%, 50 / 60Hz	AC115V, 230V ± 15%, 50 / 60Hz
DIMENSION & WEIGHT		
	251 (W) x 91 (H) x 291 (D) Approx. 2.0 kg (GFG-8215A) Approx. 2.1 kg (GFG-8216A) Approx. 2.15 kg (GFG-8217A) Approx. 2.2 kg (GFG-8219A)	251 (W) x 91 (H) x 291 (D) Approx. 2.3 kg (GFG-8250A) Approx. 2.4 kg (GFG-8255A)

ORDERING INFORMATION	
GFG-8215A	3MHz Function Generator
GFG-8216A	3MHz Function Generator With Counter
GFG-8217A	3MHz Function Generator With Counter & Sweep Mode
GFG-8219A	3MHz Function Generator With Counter, Sweep Mode & AM/FM Modulation
GFG-8250A	5MHz Function Generator With Counter
GFG-8255A	5MHz Function Generator With Counter, Sweep Mode & AM/FM Modulation
ACCESSORIES :	
User manual x 1	
GTL-101 x 2	
GTL-101 x 1 (GFG-8215A)	