Function Generator



GFG-8219A

FEATURES¡G

- Frequency Range¡G0.3Hz ~ 3MHz
- Waveforms¡GSine, Triangle, Square, Ramp, TTL and CMOS Output
- External Voltage Controlled Frequency (VCF) Function
- Duty Cycle Controlled with Signal Inversion Capability
- Variable DC Offset Control
- Two-Step (-20dB x 2) and Variable Attenuator
- Built-in 6 Digit Counter with INT./EXT. Function up to 150MHz / high resolution
- INT/EXT AM/FM Modulation
- LIN/LOG Sweep Mode
- GCV Output for Synchronization

SPECIFICATIONS

Main

Frequency Range	0.3Hz to 3 MHz (7 ranges)
Amplitude	>10Vp-p (into 50£[load)
Impedance	50£[±10%

Attenuator	-20dB±1dB x 2
DC Offset	<-5V ~ >5V (into 50£[load)
Duty Control	80% : 20% : 80% to 1MHz Continue variable
Display	6 digit LED display
Sine Wave	
Distortion	≤1%, 0.3Hz ~ 200kHz, THD≤-35dB , fundamental in all range (Specification applied from MAX. to 1/10 level)
Flatness	<0.3dB, 0.3Hz ~ 300kHz¡F <0.5dB, 300kHz ~ 3MHz
Triangle Wave	
Linear	≥98% 0.3Hz ~ 100kHz¡F ≥95%, 100kHz ~ 3MHz
Square Wave	
Symmetry	±2%, 0.3Hz ~ 100kHz
Rise or Fall Time	≤ 100nS at maximum output (into 50£[load)
CMOS Output	
Level	4Vpp±1Vpp ~ 14.5Vpp±0.5Vpp adjustable
Rise or Fall Time	≤120nS
TTL Output	
Level	≥3Vpp
Fan Out	20 TTL load
Rise or Fall Time	≤25nS
VCF	
Input Voltage	0V~10V ¡Ó 1V(100 : 1)
Input Impedance	10k£[¡Ó10%
GCV	
Output Voltage	To set the voltage between 0V ~ 2V as per different frequency
Sweep Operation	
Sweep/Manual	Switch selector
Sweep/Rate	100 : 1 ratio max. and adjustable
Sweep/Time	0.5sec. ~ 30sec. adjustable
Sweep/Mode	Lin./Log. switch selector
Amplitude Modulation	
Depth	0 ~ 100%
MOD. Frequency	400Hz (INT), DC ~ 1MHz(EXT)
Carrier BW	100Hz ~ 3MHz (-3dB)
EXT Sensitivity	≤10Vpp for 100% modulation
Frequency Modulation	
Deviation	0 ~ ±5%
MOD. Frequency	400Hz(INT), DC ~ 20kHz(EXT.)
EXT. Sensitivity	≤10Vpp for 10% modulation
Frequency Counter	
Int./Ext.	Switch selector
Range	0.3Hz ~ 3MHz (5Hz ~ 150MHz EXT.)
Accuracy	Timebase accuracy ±1 count
Timebase	¡Ó20ppm (23¢XC¡Ó5¢XC) after 30 minutes warm up
Resolution	The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz
Input Impedance	1M£[// 150pF

Sensitivity	≤35mVrms (5Hz ~ 100MHz)¡F ≤45mVrms (100MHz ~ 150MHz)
Power Source	AC 115V/230V¡Ó15%, 50/60Hz
Accessories	Power cord ¡Ñ 1, Instruction manual ¡Ñ 1, GTL-101 ¡Ñ 2
Dimensions & Weight	251(W) ¡Ñ 91(H) ¡Ñ 291(D) mm, Approx. 2.2kg

Selection Guide

GOOD WILL INSTRUMENT CO., LTD.

NO. 95-11, PAO-CHUNG ROAD, HSIN-TIEN CITY, TAIPEI HSIEN, TAIWAN, R.O.C.
Tel:886-2-2917-9188 Fax:886-2-2917-9189
E-mail:marketing@goodwill.com.tw http://www.goodwill.com.tw
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