



10MHz / 5 MHz Function Generators (GFG-8210 \ GFG-8255A)

GFG-8210 (10MHz) Function Generator

FEATURES;G

1. Frequency Range;G0.1Hz ~ 10MHz
2. Waveforms;GSine, Triangle, Square, Ramp, TTL and CMOS Output
3. External Voltage Controlled Frequency (VCF) Function
4. Duty Cycle Control with Signal Inversion Capability
5. Variable DC Offset Control
6. Two-Step (-20dBx2) and Variable attenuator
7. Built-in 6 Digit Counter with INT/EXT Function up to
8. 150MHz / high resolution
9. LIN/LOG Sweep Mode
10. Sweep Output



GFG-8210 (10MHz)

GFG-8255A (5 MHz) Function Generator

FEATURES;G

1. Frequency Range;G0.5Hz ~ 5MHz
2. Waveforms;GSine, Triangle, Square, Ramp, TTL and CMOS Output
3. External Voltage Controlled Frequency (VCF) Function
4. Duty Cycle Controlled with Signal Inversion Capability
5. Variable DC Offset Control
6. Two-Step (-20dB x 2) and Variable Attenuator
7. Built-in 6 Digit Counter with INT./EXT. Function up to 150MHz / high resolution
8. INT./EXT. AM/FM Modulation
9. LIN/LOG Sweep Mode
10. GCV Output for ynsynchronization



Specifications:

- 10MHz GFG-8210 Specifications:
 - Main
 - Frequency Range 0.1Hz ~ 10MHz (8 ranges)
 - Amplitude >10Vp-p (into 50Ω load)
 - Impedance 50Ω±10%
 - Attenuator -20dB+1dB x 2
 - DC Offset <-5V ~ >5V(into 50Ω load)
 - Duty Control 15% : 85% : 15% to 1MHz Continue variable (square wave only)
 - Display 6 digits LED display
 - -----
 - Sine Wave
 - Distortion 1% typical
 - Flatness + 0.45dB (+5%)
 - -----
 - Triangle Wave
 - Linear >98% to 100kHz
 - -----
 - Square Wave
 - Symmetry +2%, 1Hz ~ 100kHz
 - Rise or Fall Time < 35nS
 - -----
 - CMOS Output
 - Max. Frequency 2MHz
 - Level <4Vpp ~ 14.5Vpp+0.5Vpp adjustable
 - Rise or Fall Time <120nS
 - -----
 - TTL Output
 - Level >3Vpp
 - Rise or Fall Time <20nS



- -----
 - VCF
 - Input Voltage 0V~10V \pm 1V(100 : 1)
 - Input Impedance 10k Ω \pm 0%
 - -----
 - 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
 - Sweep/Out 0V ~ 10+1V
 - -----
 - Frequency Counter
 - INT./EXT. Switch selector
 - Range 0.1Hz ~ 10MHz (5Hz ~ 150MHz EXT.)
 - Accuracy Timebase accuracy \pm count
 - Timebase \pm 10ppm (23 ϕ XC \pm ϕ XC) after 30 minutes warm up
 - Resolution The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz
 - Input Impedance 1M Ω //150pF
 - -----
 - Power Source AC 115V/230V \pm 5%, 50/60Hz
 - -----
 - Accessories Power cord \pm 1,
 - Instruction manual \pm 1,
 - GTL-101 \pm 2
 - -----
 - Dimensions & Weight 251(W) \pm 91(H) \pm 291(D) mm, Approx. 2.2 kg
- 5 MHz GFG-8255A Specifications:
 - Main
 - Frequency Range 0.5Hz to 5 MHz (7 ranges)
 - Amplitude >10Vp-p (into 50 Ω load)



- Impedance 50Ω[+10%
- Attenuator -20dB+1dB x 2
- DC Offset <-5V ~ >5V (into 50Ω[load)
- Duty Control 80% : 20% : 80% to 1MHz Continue variable
- Display 6 digit LED display
- -----
- Sine Wave
- Distortion <1%, 0.5Hz ~ 100kHz
- Flatness <0.3dB, below 500kHz; <1dB, below 5MHz
- -----
- Triangle Wave
- Linear >98%, 0.5Hz ~ 100kHz; >95%, 100kHz ~ 5MHz
- -----
- Square Wave
- Symmetry +2%, 1Hz ~ 100kHz
- Rise or Fall Time < 50nS at maximum output (into 50Ω[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/Fall Time <25nS
- -----
- VCF
- Input Voltage 0V~10V ; □V(100 : 1)
- Input Impedance 10kΩ[; □0%
- -----
- 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 ~ 5MHz (-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 0.5Hz ~ 5MHz (5Hz ~ 150MHz EXT.)
- Accuracy Timebase accuracy \pm Count
- Timebase \pm 10ppm (23°CXC \pm 1°CXC) after 30 minutes warm up
- Resolution The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz
- Input Impedance 1M Ω //150pF
- Sensitivity <35mVrms (5Hz ~ 100MHz); <45mVrms (100MHz ~ 150MHz)
- -----
- Power Source AC 115V/230V \pm 5%, 50/60Hz
- -----
- Accessories: Power cord \pm 1, Instruction manual \pm 1, GTL-101 \pm 2



- -----
- Dimensions & Weight 251(W) ; 91(H) ; 291(D) mm, Approx. 2.4kg