

FUNCTION GENERATOR

Function Generator



GFG-8219A (3MHz)

- * Frequency Range: 0.3Hz ~ 3MHz
- * 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/high resolution
- * INT/EXT AM/FM Modulation
- * LIN/LOG Sweep Mode
- * GCV Output for Synchronization

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SPECIFICATIONS

MAIN	Frequency Range Amplitude Impedance Attenuator DC Offset Duty Control Display	0.3Hz ~ 3MHz (7 Range) > 10Vpp (into 50W load) 50W ±10% -20dB ±1dBx2 <-5V ~ >5V (into 50W load) 80% : 20% : 80% to 1MHz Continue variable 6 digit LED display
SINE WAVE	Distortion Flatness	≤ 1%, 0.3Hz ~ 200kHz < 0.3dB, 0.3Hz ~ 300kHz, < 0.5dB, 300kHz ~ 3MHz
TRIANGLE WAVE	Linear	≥ 98%, 0.3Hz ~ 100kHz ≥ 95%, 100kHz ~ 3MHz
SQUARE WAVE	Symmetry Rise or Fall Time	± 2%, 0.3Hz ~ 100kHz ≤ 100nS at maximum output (into 50W load)
CMOS OUTPUT	Level Rise or Fall Time	4Vpp±1Vpp ~ 14.5Vpp±0.5Vpp adjustable ≤ 120nS
TTL OUTPUT	Level Fan Out Rise or Fall Time	≥ 3Vpp 20 TTL load ≤ 25nS
VCF	Input Voltage Input Impedance	0V ~ 10V ±1V (100 : 1) 10kW ±10%
GCV(FOR GFG-8219A ONLY)	Output Voltage	To set the voltage between 0V ~ 2V as per different frequency
SWEEP OPERATION	Sweep/Manual Sweep/Rate Sweep/Time Sweep/Mode	Switch selector 100 : 1 ratio max. and adjustable 0.5sec. ~ 30sec. adjustable Lin./Log. switch selector
AMPLITUDE MODULATION (FOR GFG-8219A ONLY)	Depth MOD. Frequency Carrier BW EXT Sensitivity	0 ~ 100% 400Hz (INT), DC ~ 1MHz(EXT.) 100Hz ~ 3MHz (-3dB) ≤ 10Vpp for 100% modulation
FREQUENCY MODULATION (FOR GFG-8219A ONLY)	Deviation MOD. Frequency EXT. Sensitivity	0 ~ ± 5% 400Hz(INT), DC ~ 20kHz(EXT.) ≤ 10Vpp for 10% modulation
FREQUENCY COUNTER	INT./EXT. Range Accuracy Time Base Resolution Input Impedance Sensitivity	Switch selector 0.3Hz ~ 3MHz (5Hz ~ 150MHz EXT.) Time base accuracy ± 1 count ± 20ppm (23 °C±5 °C) after 30 minutes warm up The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz 1MW // 150pF ≤ 35mVrms (5Hz ~ 100MHz), ≤ 45mVrms (100MHz ~ 150MHz)
POWER SOURCE		AC115V/230V ±15%, 50 / 60Hz
ACCESSORIES		Power cord x 1, Instruction manual x 1, GTL-101 x 2
DIMENSIONS & WEIGHT		251(W) x 91(H) x 291(D)mm, Approx. 2.2kg

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ISO-9001 & ISO-14001