

FUNCTION GENERATOR

Function Generator



GFG-8255A (5MHz)

- * Frequency Range: 0.5Hz ~ 5MHz
- * 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

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| MAIN | Frequency Range Amplitude Impedance Attenuator DC Offset Duty Control Display | 0.5Hz ~ 5MHz (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%, 0.5Hz ~ 100kHz ≤ 0.3dB, below 500kHz ≤ 1dB, below 5MHz |
| TRIANGLE WAVE | Linear | ≥ 98%, 0.5Hz ~ 100kHz ≥ 95%, 100kHz ~ 5MHz |
| SQUARE WAVE | Symmetry Rise or Fall Time | ± 2%, 1Hz ~ 100kHz ≤ 50nS 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-8255A ONLY) | Output Voltage | To set the voltage between 0V ~ 2V as per different frequency |
| SWEEP OPERATION (FOR GFG-8255A ONLY) | 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-8255A ONLY) | Depth MOD. Frequency Carrier BW EXT Sensitivity | 0 ~ 100% 400Hz (INT), DC ~ 1MHz(EXT.) 100Hz ~ 5MHz (-3dB) ≤ 10Vpp for 100% modulation |
| FREQUENCY MODULATION (FOR GFG-8255A 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 0.5Hz ~ 5MHz (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. 2.4kg |

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