GF-232B 3 MHz function generator

Features

- ✓ Multiple waveforms: Sine, Square and Triangle.
- ✓ Frequency and TTL outputs.
- ✓ High resolution using DDS technology.
- ✓ High frequency accuracy: ±20 ppm.
- ✓ Low distortion: -55 dBc @ ≤200 kHz.
- ✓ High resolution: 0.1 Hz.
- ✓ 6 digit LED display with waverform and frequency indicator.
- ✓ Economical type, low cost.
- ✓ Output overload protection.

SPECIFICATIONS	GF-232B
Main output	
Output waveforms	Sine, Square, Triangle
Amplitude range	10 Vpp (50 Ω load)
Impedance	50 Ω ±10 %
Attenuator	-40 dB ±10 %
DC Offset	From < -5 V to > +5 V (50 Ω load)
Duty range	From 25 % to 75 %, ≤ (Square Wave)
Display	6 digits LED display
Frequency	
Waveform range	
Sine / Square	From 0.1 Hz to 3 MHz
Triangle	From 0.1 Hz to 1 MHz
Resolution	0.1 Hz maximum
Stability	±20 ppm
Accuracy	±20 ppm
Aging	±5 ppm / year
Sine wave	
Harmonic distortion (*)	≥ -55 dBc (from 0.1 Hz to 200 kHz) ≥ -40 dBc (from 0.2 MHz to 2 MHz) ≥ -35 dBc (from 2 MHz to 3 MHz)
Flatness (**)	< ±0.3 dB (from 0.1 Hz to 1 MHz) < ±0.5 dB (from 1 MHz to 2 MHz) < ±1 dB (from 2 MHz to 3 MHz)
Triangle wave	
Linearity	≥ 98 % (from 0.1 Hz to 100 kHz) ≥ 95 % (from 100 kHz to 1 MHz)
Square wave	
Simmetry	± 5 % of period +4 ns (0.1 Hz to 100 kHz)
Rise / Fall time	≤ 100 ns at maximum output, (50 Ω load)
TTL output	
Level	≥ 3 Vpp
Fan out	20 TTL Load
Rise/fall time	≤ 25 ns
Power supply	
Voltage	100 / 120 / 220 / 240 V AC ±10 % (voltage setting is factory installed)
Frequency	50 / 60 Hz
Operating environmental conditions	Indoor use, Install category II Pollution degree 2
Temperature	From 0 to 40 ºC operation From -10 to 70 ºC storage
Max. humidity	≤ 80 % (from 0 to 40 ºC) operation ≤ 70 % storage
Mechanical features	
Dimensions	251 (W.) × 91 (H.) × 291 (D.) mm
Weight	Approx 2.1 kg

Specifications valid after a working time of 30 minutes @ 18 ºC ~ 28 ºC ambient temperature.

(*) Harmonic distortion specification valid at maximum position without any attenuation to 1/10 of any combination setting, TTL Off.

(**) Flatness specification valid at the maximum amplitude relating to 1 kHz.