

Model FG2C

Function Generator



- Square, Triangle, Sine waves, TTL and CMOS pulse outputs
- 0.3 Hz to 3 MHz range
- Duty-cycle control
- Variable controlled frequency (VCF) input
- Variable output
- 2 switchable 20 dB attenuators
- Variable DC offset control
- Signal polarity invert button

FG2C Specifications (at 23 °C; ≤ 70 % R.H.)

Main	
Frequency Range	0.3 Hz to 3 MHz (7 ranges)
Amplitude	> 10 Vpp (into 50 Ω load)
Impedance	50 Ω ± 10 %
Attenuator (knob)	-20 dB ± 1 dB
Attenuator (button)	-20 dB ± 1 dB
DC Offset	< -5 V to > +5 V (into 50 Ω load)
Duty-Cycle Control	80 %:20 %:80 % to 1 MHz; continuously variable
Range Accuracy	± 5 %, + 1 Hz (@ 3.0 position)
Sine Wave	
Distortion	≤ 1 %, 0.3 Hz to 200 kHz THD < 35 dB below fundamental in all ranges (Specification applied from MAX. to 1/10 level)
Flatness	< 0.3 dB, 0.3 Hz to 300 kHz; < 0.5 dB, 300 kHz to 3 MHz
Triangle Wave	
Linear	≥ 98 %, 0.3 Hz to 100 kHz; ≥ 95 %, 100 kHz to 3 MHz
Square Wave	
Symmetry	± 2 %, 0.3 Hz to 100 kHz
Rise or Fall Time	≤ 100 ns at maximum output (into 50 Ω load)
CMOS Output	
Level	4 Vpp, ± 1 Vpp to 14.5 Vpp ± 0.5 Vpp adjustable
Rise or Fall Time	≤ 120 ns
TTL Output	
Level	≥ 3 Vpp
Fan Out	20 TTL load
Rise or Fall Time	≤ 25 ns
VCF	
Input Voltage	-10 to +10, ± 1 V (100:1)
Input Impedance	10 kΩ, ± 10 %

General Specifications

Power Source: 115 VAC or 230 VAC, ± 15 %; 50/60 Hz; **Operating Environment:** For indoor use, altitude up to 2000 M, 0 °C to 40 °C, 80 %RH; **Storage Environment:** -10 °C to 70 °C@70 %R.H.; **Dimensions (W x H x D):** 243 mm x 93 mm x 292 mm (9.57" x 3.66" x 11.5"); **Weight:** 2.0 kgs (4.4 lbs); **Safety Approvals:** EN61010-1, Cat. II, Pollution degree 2; **Warranty:** One-year



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The right tool for the job.[™]

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