

10 MHz Function Generator



MODEL EI 029



FEATURES

- Wide Frequency range: 0.1Hz to 10 MHz in 8 ranges with fine control.
- Bright 4 digit LED display for freq. readout and amplitude with range indication.
- LEDs: MHz/KHz/Hz. Optionally Internal / External frequency counter may be provided.
- Easy selection of frequency range with separate fine control.
- Versatile waveform options: Sine, Triangle, Square, Ramp,
- Facilitates of AM Balanced, AM (standard), FM, ASK, FSK, Pulse, TTL, PWM etc.
- DC offset control variable with offset enable.
- 50Ω output with step attenuator of maximum 20dB/40dB.
- Useful for testing and measurement in the laboratory and on the field.
- Designed to provide good quality signal while maintaining easy operations.
- Optional RS232, USB

Specifications for 10MHz Function Generator

SPECIFICATIONS		MODEL	
		FG 10	
FREQUENCY	Frequency range	0.1Hz to10 MHz.	
	Range selection	8 Step switch with separate fine control.	
	Wave forms	Sine, Square, Triangle, TTL/CMOS, PWM / Pulse O/P using duty cycle control, Skewed Sine/Triangle (optional), DC. Level.	
DISPLAY WITH FREQ. /AMP. SELECTION (4 DIGIT RED LED)	Freq. Display	Display with accuracy within +1% upto 100KHz & +3%FS @ 1MHz.,range LEDs for MHz, KHz & Hz.	
	Amplitude display	Display in Volts peak-peak with accuracy within +3% @ 20Vpp, LEDs to indicate Vpp & 40db attenuation.	
	Over drive LED indication	Provided	
SINE OUTPUT	Trueness	+/- 0.35V (10 V reference).	
SQUARE OUTPUT	Symmetry	Less than + 3% (at 1KHz).	

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	Rise & Fall time	Less than 50 ns @ 1MHz.
TRIANGLE OUTPUT	Linearity	99% @ 100KHz
RAMP/PULSE OUTPUT	Duty cycle	PWM using duty cycle control 15 to 85% upto 1MHz
TTL / CMOS OUTPUT WITH ENABLE	Rise & Fall time Output level	Less than 100nS at a separate BNC connector. H>=4.8V, L<= 0.20V
OUTPUT	Output voltage	0-20 Vpp max. variable upto -40db using Amplitude Control Knob.
	O/P Impedance	50 ohm O/P
	Offset with enable	+/- 15V variable with enable. Can be used as DC output if amplitude set to minimum.
ATTENUATOR	Attenuation	-20 db/-40dB selection with attenuator enable.
FREQUENCY MODULATION	Input voltage	-1.5V to + 1.5 V through BNC provided with max. Freq. when -1.5V at BNC. Supports FSK mode.
	Freq. Variable range	-70% to + 70% around center frequency set when no input is connected.
SWEEP INTERNAL	Frequency	Variable from DC to 10KHz.
	waveform	Sine, triangle, Square
	Amplitude	0 to 6Vpp variable
	Sweep O/P	Optionally made available on the rear BNC.
EXT SWEEP		Through FM input.
FM		O~10% 1. 5%(fc=500kHz, fm=1kHz)0%
AM		(M%): O~100%; 2%(fc=1MHz, fm=1kHz)
AMPLITUDE MODULATION	Input voltage	-3 V to + 3 V. through BNC provided.
	Amplitude Control	Supports ASK, AM Standard , AM Balanced (Optional).
FREQUENCY COUNTER (OPTIONAL)	Internal / External	Freq.Range:2Hz to 30MHz,Input Voltage:300Vpp max.,Sensitivity:,0.5Vpp min Attn.:1:1,1:10,Input impedance: 1M Ω , Display:4 digit red LED with Hz, KHz, MHz mode, Accuracy: +1count + time base accuracy, Source select switch for >1MHz & < 1MHz.
GENERAL	Operating Temp	0 to 50°C (Accuracy specified at 250°C).
	Power	220/230VAC +/- 10%, 50 Hz, 15VA.
	Weight	Approximately 1.9 Kg.
	Dimensions	295 (W) X 220 (D) X 98 (H).
	Accessories	Power cord, BNC to BNC , BNC to Crocodile cable, & Operating manual.

Specifications Model Photos and design subject to changes without any notice