

3MHz Function Generator With Counter



Features:

- Frequency range : 0.3Hz to 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 (-20dB × 2) and variable attenuator
- Built-in 6 digit counter with INT/EXT function up to 150MHz

Specifications:

Main	Frequency Range	0.3Hz to 3MHz (7 Range)
	Amplitude	>10Vpp (into 50 load)
	Impedance	50 ±10%
	Attenuator	-20dB ±1dB × 2
	DC Offset	<-5V to >5V (into 50 load)
	Duty Control	80% : 20% : 80% to 1MHz continue variable
	Display	6 digit LED display
	Range Accuracy	±5% + 1Hz (at 3 position)
Sine wave	Distortion	≤1%, 0.3Hz to 200kHz THD ≤35dB (below fundamental in all range)
	Flatness	<0.3dB: 0.3Hz to 300kHz; <0.5dB: 300kHz to 3MHz
Triangle wave	Linear	≥98%: 0.3Hz to 100kHz; ≥95%: 100kHz to 3MHz
Square wave	Symmetry	±2%: 0.3Hz to 100kHz
	Rise or Fall Time	≤100nS at maximum output (into 50 load)
CMOS output	Level	4Vpp ±1Vpp to 14.5Vpp ±0.5Vpp adjustable
	Rise or Fall Time	≤120nS
TTL output	Level	≥3Vpp
	Fan Out	20 TTL load
	Rise or Fall Time	≤25nS
VCF	Input Voltage	0V to 10V ±1V (100 : 1)
	Input Impedance	10k ±10%

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Specifications:

Frequency counter	Int. / Ext.	Switch selector
	Range	0.3Hz to 3MHz (5Hz to 150MHz Ext.)
	Accuracy	Time base accuracy ± 1 count
	Time Base	± 20 ppm ($23^{\circ}\text{C} \pm 5^{\circ}\text{C}$) after 30 minutes warm up
	Resolution	The maximum resolution is 10nHz for 1Hz and 0.1Hz for 100MHz
	Input Impedance	1M//150pF
	Sensitivity	≤ 35 mV rms (5Hz to 100MHz); ≤ 45 m V rms (100MHz to 150MHz)
Power source	115/230V AC $\pm 15\%$, 50/60Hz	
Accessories	Power cord $\times 1$, User Manual $\times 1$, Probe $\times 2$	
Dimensions	(W)251mm \times (H)91mm \times (D)291mm	

Part Number Table

Description	Part Number
3MHz Function Generator With Counter	72-7710

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