

20MHz FUNCTION GENERATOR

FG-8220



■ FEATURE

- 4-in-1 Sweep, Function & Pulse Generator and Frequency Counter
- Versatile waveforms for Sine, Square, Triangle, Ramp, Pulse, Sawtooth and DC outputs
- 0.2 Hz to 20 MHz Frequency Out put in 8 Ranges
- Built in 8digits External Counter Display measuring up to 3.0GHz
- Internal and External linear Sweep control from 1:1 to 10:1
- Variable Symmetry for generating Sawtooth(Ramp), Skewed Sine and Pulse waveforms
- TTL leveled Square waveform output
- Variable DC Offset control
- Variable Output level control with 20 dB Attenuator and Amplitude control

■ Technical Specification

Function		Specification				
Output Characteristics	Waveforms	Sine, Square, Triangle, Ramp, Pulse, Sawtooth, TTL Levelled Square				
	Frequency Range	Sine wave: 0.2Hz to 20MHz Square & Triangle wave : 0.2Hz to 10MHz Range selection in 8 Range (1,10,100,1K,10K,100K,1M,10M)				
	Frequency Accuracy	+/- 5% of full scale				
	Output Level	20±1Vp-p in open circuit, 10±0.5Vp-p into 50 ohm Load				
	DC Offset Control	More than +/-5V (into 50ohm)				
	Output Impedance	50 ohm +/- 5%				
	Attenuator	-20dB fixed and continuously variable				
Waveform Characteristics	Sine wave	Flatness : +/- 3dB to 20MHz Distortion : Less than 1.5% at 0.2Hz to 100KHz				
	Square Wave	Rise and Fall time : Less than 25nSec at 10MHz				
	Triangle Wave	Linearity : More than 99% at 0.2 Hz to 100 kHz				
	TTL Output	Rise and Fall time : Less than 25nSec at 10MHz Output Level :TTL Level (H ; Higher than 2.4V, L ; Lower than 0.4V)				
	Symmetry Variation	Sine & Square: 80:20 to 20:80 at 0.2Hz to 2MHz Triangle: 80:20 to 20:80 at 0.2Hz to 1MHz				
Sweep Function Characteristics	Mode	Linear				
	Width	Variable from 1 :1 to 10 : 1				
	Rate	0.5Hz to 50Hz(20mSec to 2Sec)				
	External VCF Input	Input Voltage 0 to 10V Input Impedance : Approx. 10 kΩ				
Frequency Counter Characteristics	Display	8digit Green LED, Overflow, Gate time, MHz, kHz, Hz,				
	Frequency Range	Input A: 0.1HzHz to 100MHz, Input C: 80MHz to 3.0GHz				
	Accuracy	+/- Timebase Error +/- 1 Count				
	Low Pass Filter	-3dB, 100kHz				
	Time base	10MHz, TCO, 1PPM				
	Input Sensitivity	Input A : 30mVrms(0.1Hz to 80MHz), 70mVrms(80 to 100MHz) Input C : 20mVrms(80MHz to 2.0GHz) 70mVrms(2.0GHz to 3.0GHz with RG58 cable) 40mVrms(2.0GHz to 3.0GHz with RG400 cable)				
	Max. Input Voltage	Input A :250 Vp-p, Input C : 3Vrms				
General	Power Requirement	115V or 230 VAC +/- 10%, 48 to 66Hz				
	Operating Temperature	0 to 40 °C (Accuracy specified at 23 ± 5 °C)				
	Dimension	240(W) X 280(D) X 90(H)mm				
	Weight	Approx. 3 kg				
	Standard Accessories	Power Cord, BNC Cable, Fuse, Instruction Manual				
Packing Details		Q'ty	Size (mm)	N.W. (kg)	G.W. (kg)	Remark
	Inner Packing	1	305(W)x330(D)x165(H)	-	3.5	
	Carton Packing	4	355(W)x645(D)x360(H)	14	15	