SIGNAL GENERATOR

1 MHz Function Generator FG 3112

Specifications:

Parameter	Value
Wave Forms	Sine, Square, Triangle & TTL output.
Frequency Range	1Hz to 1MHz for all functions in 6 decade steps with calibrated linear variation
	in between steps.
Frequency Counter	4 digit display for output Frequency.
Accuracy	With in ± 2% in first 5 ranges & ± 4%.last range.
Output Amplitude	0 – 15Vpp into 50 ohms and 30 Vpp in Open Circuit.
DC Off Set	Continuously Variable ±10V into open circuit. Combined signal plus offset is limited to 20 Vpp.
Output Impedance	600 ohms (±5%) Option : 50W.
Attenuation	0 to 20db.
Output Coupling	DC.
Sine Wave Distortion	Less than 1% from 10Hz to 100KHz Harmonics more than 30 db down from fundamental for 100KHz to 1MHz.
Amplitude Flatness	Sine, Square, Triangle-Ref 10KHz within ±0.5 db from 10Hz to 10KHz
	Sine, Triangle and square wave amplitude match within 1 db @10KHz.
Square Wave	Rise time - < 100 ns. ; Fall time - < 100 ns.
Duty Cycle	49% to 51%.
Symmetry	NA.
Triangle	< 1%.
Aberrations	Within ± 5% of Vpp of the waveform.
Triangle Wav Linearity	0.5%.
VCO Input	Facilities remote programming of frequency / Frequency modulation to sweep
	frequency around dial setting,
- Characteristics	Sweep frequency ratio : 100:1
	Input Impendence : 1Kohms
	Input level : Min 20mV, Max : ±5V.
TTL Square Wave	Rise Time -< 50 ns ; Fall Time - < 50 ns ; Amplitude – 5 Vpp (± 3%).
Power	230V ±10%, 50Hz, AC, Single Phase