

1 / 2 / 3 MHz Multi-Waveform Signal Generator



Application

Aplab's MSG1M / MSG2M / MSG3M Series of Multi-Waveform Signal Generator series is the answer to most engineer's test requirements. Economical with plenty of advantages makes this series the best in the market today. These Signal generators can be used as a signal source to check amplifiers, filters, attenuators and also to generate in circuit based signals. This series of signal generators are designed to provide the user with all the specifications of a good quality Multi-waveform signal Generator while maintaining easy operability. The wide Frequency range from 0.01Hz up to 1MHz / 2MHz / 3MHz through coarse and fine controls makes quick adjustment possible.

Features

- Wide Frequency Range
- Sine, Triangle, Square, Ramp, Pulse, TTL (Sync) & DC Outputs
- Low Distortion High Resolution on Low Frequency
- Output Attenuation upto 80dB
- Variable DC Offset Control
- Four Digit digital Display with Frequency Indication in Hz, KHz, MHz / Amplitude display

Technical Specifications

MULTI-WAVEFORM SIGNAL GENERATOR	MSG1M	MSG2M	MSG3M
Frequency Range	0.01Hz to 1MHz in 8 decade ranges.	0.01Hz to 2MHz in 8 decade ranges.	0.01Hz to 3MHz in 8 decade ranges.
Frequency Indication	±1% ±1 digit.		
Output Impedance	50 ohms		
Frequency Indication Accuracy	±1% +1 digit		
Output Waveforms	Sinusoidal, Triangle, Square, Ramp, Pulse, TTL (Sync) & DC Outputs.		
Sine Distortion	<1% (typical).		
Square Wave Rise / Fall Time	<75nsec.		
Frequency Stability	<0.5% of the set frequency (after ½ Hour warm up).		
Duty Cycle	10% to 90% variable.		
Maximum Output Voltage a) Into 50 ohms b) Open Circuit	10V p-p output. 20V p-p output.		
Amplitude Indication	3 digit seven segment display (Vp-p) ±5%.		
Amplitude Flatness	±0.5dB upto 100KHz range / ±1.0dB for 1MHz range.		
Attenuator	Two step attenuators of 20dB & 40dB. Fine attenuation of 20dB through vernier control. (Total 80 dB attenuation).		
Attenuator Accuracy	±0.5dB per 20dB at 1KHz.		
DC Offset	±10V ±5% (DC + AC peak) in open circuit ±5V ±5% (DC + AC peak) in 50 ohms.		
POWER REQUIREMENT			
AC Mains Power	230V AC ±10%, 50Hz., 15VA. (Approx.)		
GENERAL			
Dimensions (mm)	270 (W) x 88 (H) x 310 (D) w/o packing / 325 (W) x 153 (H) x 380 (D) with packing.		
Weight (approx.)	3 Kg. w/o packing / 4 Kg. with packing.		
Standard Accessories	Instruction Manual 1 No. BNC(M) to Alligator Clip 1 No. Mains Cord 1 No.		
Optional Accessory	50 ohms Termination.		

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

Aplab Test & Measurement Instruments Division

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