

2 MHz Function Generator SM5060-2



Advance Features

- 0.2 Hz to 2 MHz Function Generator with Sine, Square, Triangle, Ramp, Pulse, TTL & DC
- DC offset adjustment
- Square wave Rise time better than 40ns
- Microprocessor based design
- High signal purity and constant amplitude flatness throughout the entire range
- Internal and External Frequency Modulation

Technical Specification	SM5060-2
Function Generator	
Operating Modes	Sine, Square, Triangle, Ramp and Pulse with Variable Duty Cycle, DC, Free running, internal sweep or external frequency modulation, with or without DC offset
Frequency Range	0.2 Hz to 2 MHz
Frequency Stability	< 0.5 % / hr or 0.8 % / 24 hr at constant ambient temperature
Waveform Characteristics	
Sine wave Distortion	0.2 Hz – 100 kHz : max. 0.5 %
	0.1 MHz – 0.2 MHz : max. 1.5 %
	0.2 MHz – 2 MHz : max. 3 %
Square Wave Rise time	typ. <40 ns
Overshoot	< 5 %
Triangular non-linearity	<1 % (up to 100 kHz)
Trigger Output	Square Wave synchronous to signal output, TTL > 4 Vpp
Frequency Display Accuracy	Up to 2 Hz : $\pm (1 \% + 3 D)$
	2 Hz – 2 MHz : $\pm (5 \times 10^{-5} + 1 D)$

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Output (short-circuit-proof)	
Output Voltage	10 Vpp into 50 Ω , max. 20 Vpp open circuit
Attenuation	max. 60 dB, 2 steps : 20 dB \pm 0.2 dB each, Variable : 0 to 20 dB
Amplitude Flatness (sine/triangle)	0.2 Hz – 0.2 MHz : max. 0.2 dB 0.2 MHz – 2 MHz : max. 0.5 dB
Output Impedance	50 Ω / 600 Ω
DC Offset	Variable offset range : max. \pm 2.5 V into 50 Ω , max. \pm 5 V open circuit
FM Input	VCF connector on rear panel
Frequency Change	1 : 100 approx.
Input Impedance	50 k Ω 25 pF
Input Voltage	\pm 30 V max.
FM Internal (Sweep)	
Sweep Speed	20 ms to 4 s
Sweep Range	approx. 1 : 100
General Information	
Supply	230 V \pm 10 % 50 Hz, 100 – 240 V
Operating Condition	0 to 50°C, RH 95 %
Dimension	W : 205, D : 292, H : 95(mm)
Display	16*2 dot matrix LCD display
Weight	2 kg (approx.)
Standard Accessories	Manual, BNC-BNC Cable, Power Cord.
Optional Accessories	50 Ω Termination SA51, BNC- Banana Cable , BNC Test lead cable, Test Prods

Subject to Change

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