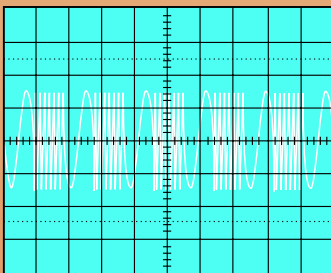
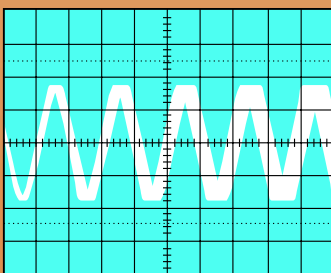


5 MHz Function Generators SM5030-5



FM



Sweep Mode (FM)

- 0.5 Hz to 5 MHz Function Generators with sine , square, triangle, TTL & DC
- DC Offset adjustment
- Square wave Rise time better than 30 ns
- Microprocessor based design
- Distortion factor < 0.5%
- Internal Sweep and External Frequency Modulation
- Amplitude Modulation
- Backlit LCD display for modes and frequency

An ideal test bench for lab use and service...

5 MHz Function Generator SM5030-5

Technical Specifications

Operating Modes : Sine, Square, Triangle, DC, Free running, internal sweep or external frequency modulation, with or without DC offset, with mode and frequency display.

Frequency Range : 0.5 Hz to 5 MHz

Frequency Stability : < 0.5% / hr or 0.8% / 24 hr at constant ambient temperature (medium position of frequency control)

Waveform Characteristics

(All waveform characteristics are with 50 Ω termination)

Sine wave Distortion : 0.5 Hz - 100 kHz : max. 0.5 %
0.1 MHz-0.5 MHz : max. 1.5%
0.5 MHz - 5 MHz : max. 3%

Square Wave Rise time : typ. ≤ 30 ns

Overshoot : $\leq 5\%$

Triangular non-linearity : $\leq 1\%$ (up to 100 kHz)

Trigger Output : Square Wave synchronous to signal output, TTL > 4 Vpp

Frequency Display Accuracy : Up to 5 Hz : $\pm (1\% + 3 \text{ D})$

5 Hz - 5 MHz : $\pm (5 \times 10^{-5} + 1 \text{ D})$

Output : (short-circuit-proof)

Output Voltage : 10 Vpp into 50 Ω , max. 20 Vpp open circuit

Attenuation : max. 60 dB, 2 steps : 20 dB ± 0.2 dB each
Variable : 0 to 20 dB

Amplitude Flatness : (sine/triangle)

0.5 Hz - 0.5 MHz : max. 0.2 dB

0.5 MHz - 5 MHz : max. 0.5 dB

Output Impedance : switchable 50 Ω / 600 Ω

DC Offset : Variable offset range : max. ± 2.5 V into 50 Ω ,
max. ± 5 V open circuit

Frequency Modulation :

FM Input : connector on rear panel

Frequency Change : 1 : 100 approx.

Input Impedance : 50 k Ω || 25 pF

Input Voltage : ± 30 V max.

FM Internal (Sweep) :

Sweep Speed : 20 ms to 4s

Sweep Range : approx. 1 : 100

Amplitude Modulation :

AM Input : connector on rear panel

Modulation Depth : 0 to 100%

Bandwidth : DC to 20 kHz

Carrier Frequency : up to 5 MHz

Max. Input : $\pm 30 V_{pp}$

General Information

Display : Backlit LCD ,with function , 4 digit frequency value display

Supply : 230 V $\pm 10\%$, 50 Hz (100/120/220/240 V available on request)

Power Consumption : 22 VA approx.

Operating Conditions : 0 to 50 $^{\circ}\text{C}$, RH 95%

Dimensions : W:285, H:75, D:365 (mm)

Weight : 2 kg (approx.)

Accessories

Manual : 1 no. BNC - BNC : 1 no. Line Chord : 1 no.

Optional : 50 Ω Termination SA51, BNC-Banana Cable

(subject to change)

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