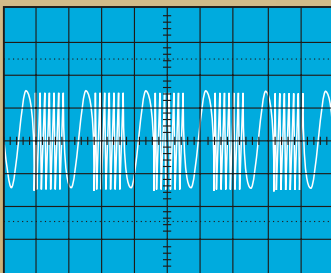
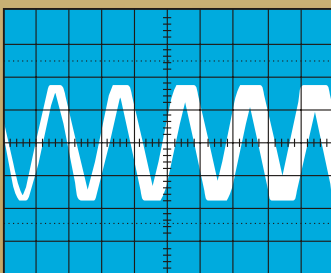


## 5 MHz General Purpose Function Generator SM5072



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
- Backlit LCD display for modes and frequency

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

# 5 MHz General purpose Function Generator SM5072

## 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  $\Omega$  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.  $\leq 30$  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 :  $\pm (1\% + 3 D)$   
5 Hz - 5 MHz :  $\pm (5 \times 10^{-5} + 1D)$

**Output** : (short-circuit-proof)

**Output Voltage** : 10 Vpp into 50  $\Omega$ , 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)

0.5 Hz - 0.5 MHz : max. 0.2 dB

0.5 MHz - 5 MHz : max. 0.5 dB

**Output Impedance** : switchable 50  $\Omega$  / 600  $\Omega$

**DC Offset** : Variable offset range : max.  $\pm 2.5$  V into 50  $\Omega$ ,  
max.  $\pm 5$  V open circuit

### Frequency Modulation :

**FM Input** : connector on rear panel

**Frequency Change** : 1 : 100 approx.

**Input Impedance** : 50 k $\Omega$  || 25 pF

**Input Voltage** :  $\pm 30$  V max.

### FM Internal (Sweep) :

**Sweep Speed** : 20 ms to 4s

**Sweep Range** : approx. 1 : 100

### 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  $^{\circ}$ 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  $\Omega$  Termination SA51, BNC-Banana Cable

(subject to change)

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