

## 10 MHz Function Generator HM8030-6

HM8030-6



Option H0801



Mainframe HM8001-2  
required for operation



- Frequency range 50mHz...10MHz,  
output voltage up to 10V<sub>pp</sub> (into 50Ω)
- Waveforms: sine wave, triangle, square wave, pulse, DC
- Distortion factor < 0.5% up to 1 MHz, rise and fall time typ. 15ns
- Internal and external sweep, FM (with H0801)
- Surge- and short-circuit-proof output

## 10 MHz Function Generator HM8030-6

All data valid at 23 °C after 30 minute warm-up

### Operating modes

Sine, square, triangle, pulse; free running, internal sweep or external frequency modulation, with or without DC offset

### Frequency ranges

0.05 Hz...10 MHz in 8 ranges, variable: x 0.09 to x 1.1 (12:1)

**Frequency drift:** < 0.5 % / hr or 0.8 % / 24 hrs. at constant ambient temperature

### Waveform characteristics

#### Sine wave distortion

0.05 Hz...1 MHz: max. 0.5 %  
1 MHz...10 MHz: max. 5 %

**Square wave rise time:** typ. 15 ns

**Overshoot:** < 5 % (for termination into 50 Ω)

**Triangle non-linearity:** < 1 % (to 100 kHz)

### Displays

**Frequency:** 5-digit, 7-segment LED, each 8 x 5 mm

#### Accuracy:

up to 5 Hz: ± (3% + 3 digits)  
5 Hz...10 MHz: ± (5 x 10<sup>-5</sup> + 1 digit)

LED indicators for mHz, Hz, kHz and s

### Outputs

**Signal output:** short-circuit proof, protected against ext. voltage up to ± 45 V<sub>DC</sub> max. (30 s)

**Impedance:** 50 Ω

**Output voltage:** 10 V<sub>pp</sub> into 50 Ω load; 20 V<sub>pp</sub> (open circuit)

**Attenuation:** max. 60 dB

**2 attenuators:** each 20 dB ± 0.2 dB

**Variable:** 0...20 dB

**Amplitude error:** (sine wave/triangle)

0.5 Hz...0.5 MHz: max. 0.2 dB  
5 Hz...10 MHz: max. 0.5 dB

**DC offset:** variable (on/off, except pulse function)

into 50 Ω load: max. ±2.5 V  
in open circuit: max. ±5 V

**Trigger output:** square wave synchronous to approx. +5V/TTL

### FM input

(VCF, BNC connector on rear panel of HM8001-2 and option HO801)

**Frequency deviation:** approx. 1:100

**Input impedance:** 6 kΩ || 25 pF

**Input voltage:** max. ± 30 V

### Internal sweep

**Sweep speed:** 20 ms...15 s

**Sweep range:** approx. 1:100

### Miscellaneous

**Power supply (from mainframe):** +5 V/200 mA  
+16 V/300 mA  
-16 V/250 mA  
(Σ=9.8 W).

**Operating temperature:** +5°C...+40°C

**Storage temperature:** -20°C...+70°C

**Rel. humidity:** 5%...80% (non condensing)

**Dimensions (W x H x D) (without 22-pole flat plug):**

135 x 68 x 228 mm

**Weight:** approx. 0.8 kg

**Accessories supplied:** Operator's Manual

#### Optional accessories:

HZ33/HZ34 Test Cable 50 Ω (BNC-BNC)

HZ22 50 Ω feed-through terminal

HZ10S/R Silicone test lead

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