

50 kHz Low-Distortion Sine Wave Generator HM8037



Frequency range 5 Hz to 50 kHz

Mainframe HM8001-2



A complete measurement system for AF measurement equipment in combination with the HM8027

3-digit digital frequency display

High amplitude stability

HZ33, HZ34
Test cable BNC/BNC



Distortion factor < 0.01 % (20 Hz-10 kHz)

Output voltage $1.5 V_{\text{rms}}$ into 600Ω

Mainframe HM8001-2 or HM8003 required for operation

Distortion Meter HM8027



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Valid at 23 °C after a 30 minute warm-up period

Operating modes

Sine wave, continuous, amplitude-regulated

Frequency range:

5 Hz bis 50 kHz, 4 ranges

variable control 10:1, overlapping ranges

Frequency drift

(Frequency control in center position)

15 min.	0.08 %	(50 kHz range)
8 hrs.	0.6 %	(50 kHz range)
15 min.	0.08 %	(in all other ranges)
8 hrs.	0.5 %	(in all other ranges)

Frequency display

3-digit, 7-segment LED display

Display accuracy: ±1 digit

Distortion factor

5 Hz - 20 Hz:	max. 0.03 %
20 Hz - 10 kHz:	max. 0.01 %
1 kHz:	typ. 0.005 %
10 kHz - 20 kHz:	max. 0.03 %
20 kHz - 50 kHz:	max. 0.05 %

Signal output (short-circuit proof)

Output voltage:	1.5 V into 600 Ω
Internal resistance:	approx. 600 Ω
Amplitude flatness:	max. ±0.2 dB (5 Hz to 50 kHz)
Attenuation:	min. 60 dB 2 fixed attenuators: each 20 dB ± 0.2 dB
variable control:	0 dB to 20 dB
Amplitude stability:	0.12 % (4 hrs.)

Synchronous output (short-circuit proof)

Output voltage:	2 V _{pp} , sine wave
Internal resistance:	ca. 1 kΩ

Miscellaneous

The outputs can be isolated from the case ground by pressing a key.

Power supply (from mainframe):

+5 V/120 mA
+15 V/30 mA
-15 V/30 mA
(Σ = 6.3 W)

Operating temperature: +10° C to +40° C

Max. relative humidity: 80 % (without condensation)

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

135 x 68 x 228 mm

Weight: approx. 0.65 kg

Accessories supplied: Operator's Manual

Optional accessories: HZ33/34 BNC Test Cable; HZ22 50 Ω feed-through termination; HZ10 Silicone test leads

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