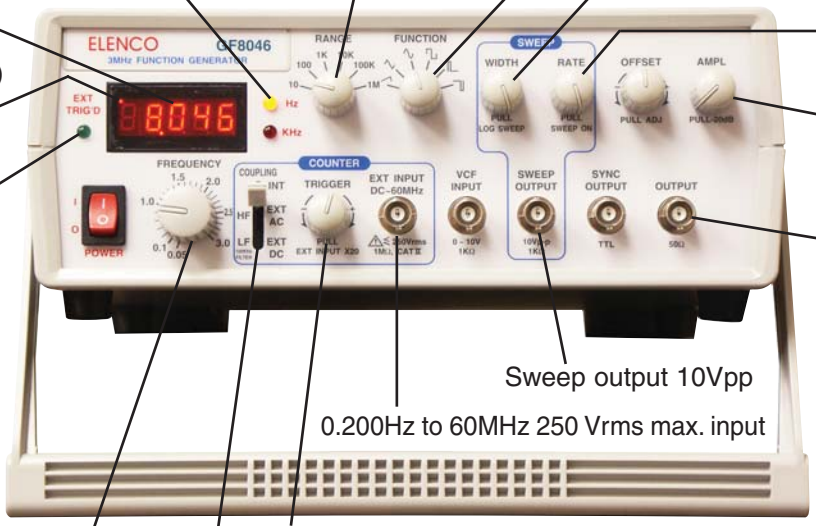
SWEEP FUNCTION GENERATOR

Models: GF-8056 - 5MHz GF-8046 - 3MHz

with Built-in 60MHz Frequency Counter



Model GF-8025
without frequency counter

Main Output	
Frequency range	0.5Hz to 5MHz in 8 ranges (GF-8056) 0.5Hz to 3MHz in 6 ranges (GF-8046)
Waveforms	4 waveforms (sine, square, triangle, DC) (GF-8056 only) 6 waveforms (sine, square, triangle, ramp, +pulse, –pulse) (GF-8046 & GF-8025)
Stability	0.1% for 15 minutes, 0.2% for 24 hours
DC offset	Continuously variable ±10V no load
Symmetry	50% (positive and negative half)
Linearity	<1% 1Hz-100kHz for triangle wave
Distortion	<2%, 1Hz to 100kHz for sine wave <1%, 1Hz to 100kHz (GF-8056)
Rise / fall time	<60ns (GF-8025, GF-8046), <90ns (GF-8056) for square wave
Output impedance	50Ω <2% accuracy
Max. output	20Vpp no load, 10Vpp 50Ω load
Min. output	0.1Vpp no load, 0.05Vpp 50Ω load
Attenuator	0dB, –20dB (<2% accuracy) (GF-8046,8025) X20: –26dB (±2% accuracy), X1: 0dB (GF-8056 only)
Sync Output	
Output impedance	50Ω <2% accuracy
Output level	TTL level, >3Vpp fixed amplitude
Fanout	>20
Rise time	<30ns (GF-8025, GF-8046) <60ns (GF-8056)
VCF Input	
Input voltage	0-10V
Input frequency	DC-1kHz variance 1:1, 1:1,000

Sweep	
Output amplitude	10Vpp (no load) or 5Vpp (1kΩ load)
Output frequency	Continuous adjustment 0.2Hz - 100Hz
Sweep speed	10ms - 5s, continuously variable
Sweep width	1:1 - 1:100 continuously variable
Output waveform	Linear or log sweep ramp wave
Counter (GF-8046 & GF-8056 only)	
Display	5 digit 0.36" red LED display with autorange
Resolution	0.001Hz
Time base	20MHz
Accuracy	<0.002%
Max. input voltage	150Vrms (GF-8046), 250Vrms (GF-8056)
Input impedance	1MΩ <2%
Input frequency	0.2Hz - 60MHz
Attenuator	0dB, –26dB
Gate time	0.25s - 10s, auto-setting
Sensitivity	<30mVrms (1MHz)
General	
Power source	AC 115V / 230V +10%, 50/60Hz, 25W
Dimensions	10 13/16" (W) x 3 1/2" (H) x 11 13/16" (D)
Weight	5 lbs. 8 oz. (GF-8046), 4 lbs. 13 oz. (GF-8025)
Safety approvals	UL, CUL, GS, TUV, CE, IEC1010, EN61010

Model GF-800/555

20Hz - 150kHz LOW DISTORTION Sine/Square Wave Audio Generator

- Sine and square wave generator
- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Low battery indicator
- Compact portable, lightweight

Specifications

Frequency range: x1 range 20Hz to 1.5kHz (23 steps), x100 range 2kHz to 150kHz (23 steps)
Accuracy: 20Hz through 100kHz (±3% or less), 120kHz and 150kHz (±5% or less)
Output control: 0dB/-20dB attenuator switch and variable amplitude control
Output impedance: approximately 600Ω
SINEWAVE CHARACTERISTICS
Output voltage: ≥1.2V rms at max. setting (no load)
Output flatness: (short term) 20Hz to 150kHz +0.5dB (reference frequency 1kHz)
Distortion: 200Hz - 15kHz <0.05% 15kHz-150kHz <0.3%
SQUARE WAVE CHARACTERISTICS
Output voltage: ≥5V p-p at maximum setting
Rise & fall time: Less than 0.5µs
Sag: Less than 5% at 20Hz (DC coupled)
Over shoot: <2% from maximum output
Duty ratio: 50% ±5%
SYNCHRONIZATION CHARACTERISTICS
Output voltage: ≥1.2 rms (no load)
Output impedance: 1kΩ ±5%
Other specifications same as sinewave characteristics

1MHz Function Generator
Model FG-500

Specifications

OUTPUT:
Waveforms: Sine, square, triangle
Frequency: 1Hz - 1MHz
Impedance: 600Ω ±10%
Amplitude: Sine/triangle 0-3V at 12V DC input squarewave 8V (no load)
Frequency variable range: 10:1 or more
Frequency multiplier: 6 decade steps

SINE WAVE
Distortion: Less than 1%
Flatness: ±0.5 dB 1Hz-100kHz

SQUARE WAVE
Symmetry: Less than 5% (at 1kHz)
Rise & Fall time: Less than 300ns (at 1kHz)

TRIANGLE WAVE
Linearity: Less than 1% (up to 100kHz)
Power requirements: 9 to 18V DC at input

Available in Kit FG-500K