

FEATURES

- Waveforms-Sine, triangle, square, ramp, TTL, and CMOS output
- Variable DC offset control
- Built-in 6 Digits Counter with INT/EXT function up to 150MHz
- 0.3Hz ~ 3MHz and 0.5Hz ~ 5MHz frequency ranges available in this range of function generators
- External voltage-controlled frequency (VCF) function
- Duty Cycle Control with Signal Inversion Capability

RS PRO IFG8216A Function Generator & Counter 3MHz (Sinewave)

RS Stock No.: 123-3554



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From RS PRO, comes a range of high quality and user-friendly function generators. Manufactured to industry standards, these function generators are stable, low-distortion instruments which generate signals in the frequency range up to 3 MHz and the counter can be switched to measure and display the frequency of an external signal up to 150 MHz

General Specifications

Series	GFG-8200A Series
Model Number	IFG8216A
Waveform Types	Sine, triangle, square, ramp, TTL, and CMOS output
Display Type	6 digits LED display
Frequency Range (Square, Pulse and Arbitrary Waveform)	0.3Hz ~ 3MHz (7 Range)
Time Base Accuracy	±10ppm
Input Impedance	1 (Frequency Counter) MΩ, 1 (VCF) kΩ
TTL Output Level	≥3V Pk-Pk
CMOS Output Level	4 → 14.5V Pk-Pk
Attenuation	-20dB
Digital Frequency	Yes
Digital Amplitude and Offset	Yes
Internal Linear and Log Sweep	Yes
Variable Sweep	Yes
Internal and External Amplitude Modulation	Yes

Frequency Characteristics

Signal Type	Range
Sine	0.3Hz - 3MHz
Square	0.3Hz - 3MHz
Ramp (Triangular)	0.3Hz ~ 100kHz

Sine Wave Characteristics

Harmonic Distortion	$\leq 1\%$, 0.3Hz ~ 200kHz
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Square Wave Characteristics

Rise/Fall Time	$\leq 100\text{ns}$ at maximum output (into 50 load
symmetry	$\pm 2\%$, 0.3Hz ~ 100kHz

Modulation Characteristics

Parameters	AM	FM
Modulating Frequency	400Hz (INT), DC ~ 1MHz EXT	400Hz(INT), DC ~ 20kHz(EXT)
Carrier Waveforms	Sine, Square, Triangle	Sine, Square, Triangle
Depth	0% to 100.0%	-
Deviation	-	0 - $\pm 5\%$

Sweep Characteristics

Waveforms	Sine, Square, Triangle
Type	Linear or Logarithmic
Sweep Time	0.5sec. ~ 30sec. adjustable

Frequency Counter

Range	0.3Hz ~ 3MHz (5Hz ~ 150MHz EXT)
Accuracy	Time Base accuracy ± 1 count
Time base	$\pm 20\text{ppm}$ (23 ± 5) after 30minutes warm up
Resolution	100nHz for 1Hz, 0.1Hz for 100MHz
Input Impedance	1mOHM /150pf
Sensitivity	35mVrms to 30Vms (5Hz~150MHz)

Electrical Specifications

Input Voltage	AC115V, 230V
Plug Type	UK

Mechanical Specifications

Dimensions	251mm x 291mm x 251mm
Width	291mm
Length	251mm
Height	251mm
Weight	2.4kg

Operation Environment Specifications

Operating Temperature Range	0°C - 40°C
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Approvals

Compliance/Certifications	CE
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Stock No. :	Model :
123-3554	GFG-8216A (3MHz)
123-3555	GFG-8219A (3MHz)
123-3556	GFG-8255A (5MHz)



GFG-8216A (3MHz)



GFG-8219A (3MHz)



GFG-8255A (5MHz)

SELECTION GUIDE

MODEL	GFG-8255A	GFG-8219A	GFG-8216A
DISPLAY	6 Digits LED Display		
WAVEFORM	Sing , Square , Triangle		
FREQUENCY RANGE	5MHz	3MHz	3MHz
LIN/LOG SWEEP	✓	✓	
AM/FM MODULATION	✓	✓	
FREQUENCY COUNTER	✓	✓	✓
VOLTAGE CONTROL FREQUENCY	✓	✓	✓
GCV OUTPUT	✓	✓	
TTL/CMOS OUTPUT	✓	✓	✓