

FEATURES

- Waveforms that can be produced by these generators are Sine, square, triangle and ramp
- Built-in 6-digit frequency counter with 150 MHz range (external input)
- TTL and variable CMOS outputs
- External Voltage Controlled Frequency (VCF) Function
- Frequency Range
 0.3 Hz →3 MHz and
 0.5 Hz →5 MHz
 offered in this range
 of function
 generators.

RS PRO IFG8219A Function Generator & Counter 3MHz (Sinewave)

RS Stock No.: 123-3555



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, this range of function generators are stable, low distortion instruments that generate signals. These high-quality, user-friendly function generators include a 6 digits LED display that is clear and easy to read and also include a sweep function that simplifies finding resonant points of speakers, filter networks and other networks/structures (an oscilloscope can be connected for response display)

General Specifications

Series	GFG-8200A Series		
Model Number	IFG8219A		
Waveform Types	Sine, Triangle, Square, Ramp, TTL and CMOS Output		
Display Type	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	4V to 14.5V Pk-Pk		
Attenuation	-20dB		
Digital Frequency	Yes		
Digital Amplitude and Offset	Yes		
Internal Linear and Log Sweep	Yes		
Variable Sweep	Yes		
FM Modulation	Yes		
Internal and External Amplitude Modulation	Yes		
Applications	The integrated functions of these function generators allow these units to accommodate a variety of application use such as: Audio response testing, Ultrasound applications, Vibration testing, Servo syste evaluations		



Frequency Characteristics

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

Sine Wave Characteristics

Harmonic Distortion <=1%, 0.3Hz ~ 200kHz
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Square Wave Characteristics

Rise/Fall Time	≤100ns at maximum output (into 50ohm load)	
Symmetry	+/-2%, 0.3Hz ~ 100kHz	

Modulation Characteristics

Parameters	AM	FM
Carrier Waveforms	Sine, Square, Triangle	Sine, Square, Triangle
Modulating Frequency	400Hz (INT), DC ~ 1MHz EXT	400Hz(INT), DC ~ 20kHz(EXT)
Depth	0% to 120.0%	-
Deviation	-	0 % - 5%

Sweep Characteristics

Waveforms	Sine, Square, Triangle	
Туре	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	±20ppm (23 ±5) after 30minutes warm up	
Resolution	100nHz for 1Hz, 0.1Hz for 100MHz	
Input Impedance	1Mohm / 150pF	
Sensitivity	<=35mVrms (5Hz ~ 100MHz), <= 45mVrms (100MHz ~ 150MHz)	

Electrical Specifications

Input Voltage	0V ~ 10V 1V (100 : 1)
Power Consumption	AC115V, 230V 15%, 50 / 60Hz
Plug Type	UK

Mechanical Specifications

Dimensions	251mm x 91mm x 291mm
Width	251mm
Length	291mm
Height	91mm
Weight	Approx. 2.2kg

Operation Environment Specifications

Operating Temperature Range	0°C to 40°C

Approvals

Compliance/Certifications	CE





Function Generators & Counters



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	1	✓	
TTL/CMOS OUTPUT	1	✓	1