

Datasheet

RS PRO Multi-Channel Function Generator

Stock No:1919725,1919782



FEATURES

- **Maximum Five Output Channels**
 - 2 Equivalent Performance Arbitrary Channels Frequency : 1 μ Hz ~ 10/20/30/60MHz
 - RF Channel Frequency (FG/ARB/MOD) : 160/320MHz
 - Pulse Generator Frequency : 25MHz
 - Power Amplifier : Low Frequency, 5Hz~100kHz, 20dB/20W(limited by current setting)
- True Point by Point Output Arbitrary Waveform Function : 200MSa/s, 100MHz Repetition Rate, 14-bit Resolution,16k Points Memory Depth
- Earth Ground Isolation Design Among I/O Terminals and Instrument Chassis
- Frequency Counter : 150MHz, 8-bit Frequency Resolution
- AM/FM/PM/ASK/FSK/PSK/SUM/PWM Modulation
- Built-in Medical and Automotive Electronic Waveforms
- USB Host/USB Device/LAN (RSFG-22XX only)
- 4.3 Inch TFT Color Display

SPECIFICATIONS

FSK	Carrier Waveforms Modulating Waveforms Internal Frequency Frequency Range Source	Sine, Square, Triangle, Ramp, Pulse 50% duty cycle square 2 mHz to 1 MHz 1 μ Hz to max frequency Internal / External
SWEEP	Waveforms Type Sweep Direction Start/Stop Freq Sweep Time Source Trigger Marker Source	Sine, Square, Triangle, Ramp Linear or Logarithmic Sweep up or sweep down 1uHz to max frequency 1ms to 500s Internal / External Single, External, Internal Marker signal on falling edge (programmable) Internal / External
BURST	Waveforms Frequency Pulse Count Start/Stop Phase Internal Frequency Gate Source Trigger Source	Sine, Square, Triangle, Ramp Max Frequency 25MHz 1~1000000 Cycles or infintite -360.0° ~ +360.0° 1 us ~ 500 s External Trigger Single, External, Internal
TRIGGER DELAY	NCycle, Infinite	0s ~ 100 s
EXTERNAL TRIGGER INPUT	Type Input Level Slope Pulse Width Input Impedance	For FSK, Burst, Sweep TTL Compatibility Rising or Falling(Selectable) >100ns 10k Ω , DC coupled
EXTERNAL MODULATION INPUT	Type Voltage Range Input Impedance Frequency Ground Isolation	For AM, FM, PM, SUM, PWM \pm 5V full scale 10k Ω DC to 20kHz 42Vpk max
TRIGGER OUTPUT	Type Level Pulse Width Maximum Rate Fan-out Impedance	For ARB, Burst, Sweep TTL Compatible into 50 Ω >16ns 25MHz \geq 4 TTL Load 50 Ω Typical
FREQUENCY COUNTER	Range Accuracy Time Base Resolution Input Impedance Sensitivity Ground Isolation	5Hz ~ 150MHz Time Base accuracy \pm 1count \pm 20ppm (23°C \pm 5°C) The maximum resolution is : 100nHz for 1Hz, 0.1Hz for 100MHz 1k Ω /1pf 35mVrms ~ 30Vms (5Hz ~ 150MHz) 42Vpk max
Dual Channel Function (CH1/CH2)	Phase Track Coupling Dsolink	-180° ~180° Synchronize phase CH2=CH1 Frequency (Ratio or Difference); Amplitude & DC Offset \checkmark
OTHER	Store/Recall Interface Display	10 Groups of Setting Memories LAN (RSFG-22XX Series only), USB 4.3 inch TFT LCD, 480 x 3 (RGB) x 272
GENERAL SPECIFICATIONS	Power Source Power Amplifier Source Power Consumption Operating Environment Operating Altitude Pollution Degree Storage Temperature Dimensions & Weight	AC 100~240V, 50~60Hz DIP switch, AC 100~120V/AC 220~240V, 50~60Hz (RSFG-2120MA, RSFG-2260MRA only) 30W or 80W(With power amplifier) Temperature to satisfy the specification : 18 ~ 28°C ; Operating temperature : 0 ~ 40°C ; Relative humidity : \leq 80%, 0 ~ 40°C, \leq 70%, 35 ~ 40°C ; Installation category : CAT II 2000 Meters IEC 61010 degree 2, Indoor use -10 ~ 70°C, Humidity : \leq 70% 266(W) x 107(H) x 293(D) mm ; Approx. 2.5kg

The specifications apply when the function generator is powered on for at least 30 minutes under +20°C~+30°C

- Note : (1). A total of ten waveforms can be stored. (Every waveform can be composed of a maximum of 16k points)
 (2). Add 1/10th of output amplitude and offset specification per °C for operation outside of 0°C to 28°C range (1-year specification)
 (3). DC offset set to zero
 (4). Jitter specification for RF Generator: 20ppm +5ns
 (5). Only Pluse channel support
 (6). Only one channel output

ORDERING INFORMATION

1919722	RSFG-2110	10MHz Single Channel Arbitrary Function Generator with Pulse Generator
1919779		
1919723	RSFG-2120MA	20MHz Single Channel Arbitrary Function Generator with Pulse Generator, Modulation, Power Amplifier
1919780		
1919724	RSFG-2160MR	60MHz Single Channel Arbitrary Function Generator with Pulse Generator, Modulation, 320MHz RF Signal Generator
1919781		
1919725	RSFG-2230M	30MHz Dual Channel Arbitrary Function Generator with Pulse Generator, Modulation
1919782		
1919726	RSFG-2260M	60MHz Dual Channel Arbitrary Function Generator with Pulse Generator, Modulation
1919783		
1919727	RSFG-2260MRA	60MHz Dual Channel Arbitrary Function Generator with Pulse Generator, Modulation, 320MHz RF Signal Generator, Power Amplifier
1919784		

ACCESSORIES :

- Quick Start Guide x 1, CD-ROM with MFG Software and User Manual x 1
GTL-101 BNC-Alligator test lead x 1 (RSFG-2110/2120/2130M/2160MF/2160MR)
GTL-101 BNC-Alligator test lead x 2 (RSFG-2230M/2260M/2260MFA/2260MRA)

OPTIONAL ACCESSORIES

- GTL-246** USB Type A to Type B cable

FREE DOWNLOAD

- PC Software** Arbitrary Waveform Editing Software

