AG Series
Arbitrary Waveform Generator

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MetroQ

AG 1022F

Main Features:

+ Advanced DDS technology, 25MHz frequency output

+ 125MSa/s sample rate, and 32 bits frequency resolution

+ Vertical Resolution : 14 bits, 8K arb waveform length

+ Comprehensive waveform output :

  5 basic waveforms, and 26 built-in arbitrary waveforms

+ Comprehensive modulation functions :

  AM, FM, PM, FSK, PWM, Sweep, and Burst

+ Newly supported SCPI

+ Newly added frequecny counter function

+ 3.9 inch high resolution (480 × 320 pixels) TFT LCD display

Performance Specifications

Model	AG1022F
Channel	dual
Frequency Output	25MHz
Sample Rate	125MS/s
Vertical Resolution	14 bits
Waveform	
Standard Waveform	Sine, Square, Pulse, Ramp, and Noise
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 26 built-in waveforms, and other user-defined arbitrary waveforms
Frequency (resolution 32 bits)	
Sine	1μHz - 25MHz
Square	1μHz - 5MHz
Pulse	1μHz - 5MHz
Ramp	1μHz - 1MHz
Noise	25MHz (-3dB) (typical)
Arb	1μHz - 10MHz
Amplitude	
Amplitude	1m Vpp - 10 Vpp (50Ω), 1m Vpp - 20 Vpp (high impedance)
Resolution	1m Vpp or 14 bits
DC Offset Range (AD+DC)	±5V (50Ω), ±10V (high impedance)
DC Offset Range Resolution	1mV
Load Impedance	50Ω (typical)
Arbitrary Waveform	
Wave Length	2 pts to 8K pts
Sample Rate	125MS/s
Vertical Resolution	14 bits
Non-volatile Memory	26 waveforms
Modulation	
Modulation Waveform	AM, FM, PM, FSK, Sweep, and Burst
Modulation Frequency	2mHz to 20.00KHz (FSK 1μHz - 100KHz)
Counter	
Function	Frequency Period, +Width, -Width, +Duty, and -Duty
Frequency Range	100mHz - 200MHz
Frequency Resolution	6 digits/s
Input / Output	
Display	3.9 inch (480 × 320 pixels) TFT LCD
Type	counter, external modulation input / output, external trigger input / output, external reference clock input / output
Communication Interface	USB host, USB device, RS232
Mechanical	
Dimension (W×H×D)	235 × 110 × 295 (mm)
Weight (without package)	3.00 kg

Specifications subject to change without prior notice.