Arbitrary Waveform Generator

multicomp PRO

Features

- Max 70MHz frequency output and 300MSa/s Sample rate
- 14 bits Vertical Resolution, Vertical resolution 1µHz
- 8K waveform length
- Comprehensive waveform output : 5 basic waveforms, and 150 built-in arbitrary waveforms
- Comprehensive modulation functions : AM, FM, PM, FSK and Sweep Burst
- SCPI, and LabVIEW supported
- 3.6 inch (480 × 272 pixels) LCD

Performance Specifications

Model	MP751059	MP751060
Channel	2	
Frequency Output	35MHz	70MHz
Sample Rate	500MSa/s	
Vertical Resolution	14 bits	
Waveform		
Standard Waveform	sine, square, pulse, ramp, noise	
Arbitrary Waveform	exponential rise, exponential fall, sin(x)/x, step wave, and others total 150 built-in waveforms	
Frequency		
Sine	1µHz-35MHz	1µHz -70MHz
Square	1µHz ~ 15MHz	1µHz ~ 20MHz
Pulse	2mHz ~ 15MHz	1µHz ~ 20MHz
Ramp	2mHz ~ 1MHz	1µHz ~ 2MHz
Noise	20MHz (-3dB, typical)	
Arbitrary Waveform	2mHz ~ 10MHz	
Frequency resolution	1µHz or 7 significant figures	
Frequency stability	±30 ppm at 0 ±40°C	
Frequency aging rate	±30 ppm per year	
Arbitrary		
Waveform Length	2 points – 8K points	
Sample Rate	125Ma/s	300Ma/s
Amplitude		
Amplitude	1mVpp ~ 8Vpp (≤ 10MHz) 1mVpp ~ 5Vpp (≤70MHz)	

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DC Offset Range (AD+DC)	±(10 Vpk – Amplitude Vpp/2) high resistance ±(5 Vpk – Amplitude Vpp/2) 50 Ω
DC offset resolution	1mV or 4 digits
Load Impedance	50Ω (typical)
DC offset Accuracy	±(1 % of |setting| + 1 mV + amplitude Vpp * 0.5%)
Modulation	
Type	AM, FM, PM, FSK
Internal Modulation Frequency	2 mHz to 100 kHz
Sweep characteristic	
Carrier	Sine, rectangular wave, ramp wave, arbitrary wave (Except DC)
Minimum/maximum starting frequency	2mHz (minimum) / maximum frequency of corresponding carrier
Minimum/maximum termination frequency	2mHz (minimum) / maximum frequency of corresponding carrier
Trigger source	Internal, external,
Burst characteristic	
Waveform	Sine wave, square wave, ramp wave, pulse wave and arbitrary wave (Except DC)
Types	N-Cycle
Trigger source	Internal, manual
Carrier frequency	2 mHz ≤ Offset ≤ Maximum frequency of corresponding carrier /2
Input / Output	
Display	3.6" 480 × 272 pixels LCD
Communication Interface	USB Device
Mechanical specifications	
Size	200mm × 68.5mm × 75mm
Weight	0.5kg
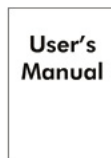
Power Cord	Adapter	Quick Guide	USB Cable	BNC Cable	BNC to Alligator Clip

Part Number Table

Description	Part Number
Arbitrary Waveform Generator, 2 Channel, 35MHz	MP751059
Arbitrary Waveform Generator, 2 Channel, 70MHz	MP751060

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