

Mixed Signal Oscilloscope

4CH Oscilloscope, 8CH Logic Analyzer

MSO5054F(G)/DSO5000E Series

Feature

- 4 Channels Oscilloscope; 60-300MHz Bandwidth;
- 32K/1M Record Length; 1GS/s / 2GS/s Sample Rate;
- 32 automotive measurement; with the FFT function;
- 8 Channels Logic Analyzer,
- 7 inch 64K color LCD, high resolution 800x480;
- 25MHz Arb. Waveform Generator;

Specifications

Model		DSO5304E	DSO5204E	DSO5104E	DSO5064E	MSO5054FG	MSO5054F	
Horizontal	Bandwidth	300MHz	200MHz	100MHz	60MHz	50MHz		
	Sampling Rate Range	2GSa/s				1GS/s		
	Memory Depth (Sample Points)	32K				1M		
	SEC/DIV Range	2ns~40s/div		4ns/div~40s/div				
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals						
	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6 ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4 ns) Sampling interval = SEC/DIV×200						
Vertical	A/D Converter	8-bit resolution, each channel sampled simultaneously						
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC						
	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)						
	Optional Analog Bandwidth Limit (typical)	20MHz						
	Low Frequency Response (-3db)	≤10Hz at output BNC						
	Rise Time	1.2ns	1.7ns	3.5ns	5.8ns	≤5ns		
Trigger	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div						
	Trigger Type	Video, Edge, Pulse Width, Slope, Overtime, Code-type, Duration, Queue, Repeat, Alternate						
	Trigger Level Range	CH1, CH2, CH3, CH4: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V						
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2, CH3, CH4: ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)						
	Holdoff Range	100ns- 10s						
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz						
Acquisition	Normal, Peak Detect	Upon single acquisition on all channels simultaneously						
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128						
Input	Input Coupling	DC, AC or GND						
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF						
	Probe Attenuation	1X, 10X,						
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X						
Measurement	Cursors	The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.						
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycle RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFF						
General Feature	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar						
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II						
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)						
	Sampled Channels	8				8		
Logic Analyzer	Max. Input Impedance	200K (C=10p)				200K (C=10p)		
	Input Voltage Range	0~3V				0~3V		
	Logic Threshold Range	0~3V				0~3V		
	Max. Sample Rate	1GSa/s				500MSa/s		
	Compatible Input	TTL, CMOS, ECL				TTL, CMOS, ECL		
	Sample Depth	32K				1M		
	Measurement	Period and Frequency				Period and Frequency		
	Waveform Frequency	DC~25MHz				-		
Arbitrary Waveform Generator	DAC clock	2K~200MHz adjustable				-		
	Frequency Resolution	0.1%				-		
	Waveform Depth	4KSa				-		
	Vertical Resolution	12bit				-		
	Frequency Stability	<30ppm				-		