



100MHz DUAL CHANNEL OSCILLOSCOPE

CQ6103

Features

- 100MHz bandwidth, dual channel, delayed sweep
- 10 sets memory for front panel setting save&recall
- Cursor readout with 7 measurements
- Panel setup lock of digital-control functions
- Buzzer alarm
- Trigger signal output
- Z-Axis modulation input
- SMD technology, high stability and reliability



MCP
lab electronic

Specifications		CQ6103			
CRT	Type	8" rectangle, internalgraticule, 0%, 10%, 90% and 100% marks			
	Display area	8 x10DIV (Div=10mm)			
	Accelerating potential	16kV approx			
	Illumination	Continuously adjustable at front panel			
	Z-axis input	Sensitivity: 5V or more			
Vertical system		Maximum input voltage: 30V(DC+AC peak) at 1kHz or less			
		Bandwidth: DC-5MHz			
	Sensitivity	2mV-5V/div, 11 step in 1-2-5 sequence			
	Sensitivity Accuracy	±3% (5div at the center of display)			
	Vernier Vertical Sensitivity	Continuously variable to 1/2, 5 or less of panel-indicate value			
	Bandwidth(-3dB)	DC-100MHz(2mV/div); DC-20MHz			
	Rise Time	3.5ns(2mV/div); 17.5ns			
	Signal Delay	Leading edge can be monitored			
	Max. Input Voltage	400V(DC+AC peak) at 1kHz or less			
	Input Coupling	AC, DC, GND			
	Input Impedance	1MΩ±2% // approx. 25pF			
	Vertical Mode	CH1, CH2, DUAL(CHOP/ALT), ADD, CH2 INV			
	Bandwidth Limited	20MHz			
	Common-Mode Rejection Ratio	50:1 or better at 50kHz			
	Horizontal system	Dynamic Range	8 div at 100MHz		
Horizontal Modes		MAIN(A), ALT, DELAY(B)			
A(main) Sweep Time		50ns-0.5s/div, continuously variable (UNCAL)			
B(delay) Sweep Time		50ns-50ms/div			
Accuracy		±1-3% (±1-5% at x10 MAG)			
Sweep Magnification		x 10(maximum sweep time 5ns/div)			
Hold Off Time		Variable			
Delay Time		1µs-5s			
Delay Jitter		Better than 1:20000			
Alternate Separation		Variable			
Trigger Modes		AUTO, NORM, TV			
Trigger Source		CH1, CH2, LINE, EXT			
Trigger Coupling		AC, DC, HFR, LFR			
Trigger Slope		"+" or "-" polarity or TVsync polarity			
Trigger			Mode	Frequency	
	Trigger Sensitivity	AUTO	10Hz-20MHz	0.35div	50mV
			20MHz-100MHz	1.5div	150mV
		NORM	DC-20MHz	0.35div	50mV
			20MHz-100MHz	1.5div	150mV
TV sync	TV	sync signal	1div	200mVpp	
X-Y Operation	Max. External Input Voltage	400V(DC+AC peak) at 1kHz			
	External Input Impedance	1MΩ±5% // approx. 25pF			
	Mode	X-axis: selectable CH1, CH2, EXT Y-axis: selectable CH1, CH2, CH1 and CH2			
OUTPUT SIGNAL	Sensitivity Accuracy	2mV-5V/div ±3%; EXT: 0.1V/div ±5%			
	X-axis Bandwidth	DC-500kHz(-3dB)			
	Phase Error	3° or less from DC-50kHz			
Cursor Readout	Trigger Signal Output	Voltage	approx. 25mV/div into 50Ω		
	Calibrator Output	Frequency response	DC - 10MHz		
		1kHz Square wave, 2Vpp	±2%		
	Cursor Measurement Function	ΔV, ΔV%, ΔVdB, ΔT, 1/ΔT, ΔT%, Δθ			
	Effective Cursor Range	Vertical: ±3div; Horizontal: ±4 div			
Special function	Panel Setting Display	Vertical: V/div(CH1, CH2), UNCAL, ALT/CHOP/ADD, INV, probe factor, AC/DC/GND Horizontal: s/div(MTB, DTB), UNCAL, x 10MAG, delay time, HO Trigger: source, coupling, slope, level, TV-V, TV-H Others: X-Y, lock, save/recall MEM 0-9			
	TIME/DIV Auto Range	Provided			
	Panel Setting Save & Recall	10 sets			
Power source	Panel Setups Lock	Provided			
Dimensions	AC 100V/120V/230V±10% . 50/60Hz				
Weight	310(W) x 150(H) x 455(D) mm				
Accessories	9kg				
	One operation manual, one fuse, one power cable, two probes				

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