

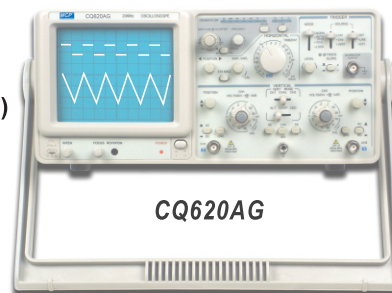
CQ60 SERIES DUAL CHANNEL OSCILLOSCOPE

MCP[®]
lab electronics

CQ620A/CQ620AT/CQ620AG

Features

- .Expanded vertical sensitivity to 20V/div
- .Component testing function: resistor, capacitor, inductor(CQ620AT)
- .Built-in 1 MHz function generator(CQ620AG)
- .20MHz dual channel
- .High sensitivity: 1mV/div
- .ALT triggering function
- .Z-Axis input, CH1 output(option)
- .Encoder for sweep
- .10 times sweep magnification
- .Triggering level lock function, automatic synchronize function



Technical Data		CQ620A/CQ620AT/CQ620AG		
CRT	Type	6-inch rectangular with internal graticule 8×10div (1div=1cm)		
	Z-Axis input	Zin: ≈47kΩ ; Vin: ≥5Vp-p; Bw: DC~2MHz		
	Accelerating voltage	Apporx. 2kV		
	Illumination	Front panel control		
Function Generator (CQ620AG only)	Frequency range	0.1Hz~1MHz (7 ranges)		
	Waveform	Sine, square, triangle		
	Frequency variable range	10:1 or more		
	Output impedance	50Ω ±10%		
	Output amplitude	≥14Vp-p (1MΩ load)		
	DC offset	±6V (1MΩ load)		
	Sine wave distortion	2% (10Hz~100kHz)		
	Square wave symmetry	±3% or less (in 1kHz Max.)		
	Square wave rise/fall time	120ns or less		
	Vertical	Sensitivity	×1	±3%; 5mV~20V/div on 1-2-5 sequence 12 rangers
×5			±5%; 1mV~4V/div on 1-2-5 sequence 12 rangers	
Bandwidth		×1	DC (AC 10Hz) ~ 20MHz (-3dB)	
		×5	DC (AC 10Hz) ~ 7MHz (-3dB)	
Rise time		×1/×5	≤17.5ns/ ≤50ns	
Input impedance			≈1MΩ ±3%/ 25PF ±5PF	
Max input voltage			400V (DC + ACp-p) at 1kHz	
Input coupling			AC, DC, GND	
Vertical operation mode			CH1, CH2, ALT, CHOP, ADD, CH2 INV	
Horizontal		Sweep time	0.2μs~0.5s / div±3%; MAG×10:20ns ~ 50ms /div ±5%	
	Sweep time accuracy	±3%, ±5% at ×10MAG (20ns~50ns/DIV uncalibrated)		
	Sweep magnification	10 times		
	Max sweep time	20ns/DIV		
Trigger	Linear	±5%, ±10% at ×10MAG		
	Trigger mode	AUTO(TV-V), NORM, TV-H, LEVER LOCK		
	Trigger source	CH1, CH2, ALT, LINE, EXT, VERT		
	Trigger coupling	AC		
	Trigger slope	"+" or "-"		
	Trigger sensitivity	5Hz~10MHz	CH1, CH2	1DIV
			ALT	2.0DIV
		10MHz~20MHz	EXT	200mV
			TV sync pulse >2DIV or 0.5V (EXT)	
	External trigger input	Input impedance: 1MΩ ±3%, 25pF ±5pF Max. input voltage: 400V (DC+ACpeak) at 1kHz		
X-Y	Sensitivity	5mV~5V/div, ±4%		
	X-axis bandwidth	DC ~500kHz		
	Phase error	≤3° DC ~ 50kHz		
Output signal	CH1 signal output	√		
	Calibrator output	1kHz square wave, 2Vp-p±2%		
Power source	AC 110/220V±10%, 50Hz/ 60Hz, ≈40W			
Dimensions	310(W) × 145(H) × 440(D)mm			
Weight	Approx. 8kg			
Accessories	One operation manual, one fuse, one power cable, two probes			

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