Analog Oscilloscope

CRT READOUT, 100MHz

TOS-2100C SERIES

MODEL LIST

- TOS-2100C: standard model with 10 sets panel settings storage and CRT readout

FEATURES

- Dual channel 100MHz
- Time base auto-range
- Cursor readout with 7 measurements
- Panel lock function
- Buzzer alarm
- LED indicators
- TV synchronization; X-Y mode
- Z-axis modulation input; Trigger signal output
- Signal delay function, monitoring the leading edge
- Continuously adjustable screen illumination
- Delayed sweep
- 10 sets save & recall for panel settings

SPECIFICATIONS

Vertical system						
Sensitivity		2mV~5V/DIV±3%, 11 steps in 1-2-5 sequence				
Vernier sensitivity		Continuously variable to 1/2.5 or less of panel indicated value				
Bandwidth (-3dB)		DC (AC 10Hz)~100MHz (2mV/DIV: DC~20MHz)				
Rise time		Approx. 3.5ns (2mV/DIV: Approx. 17.5ns)				
Input impedance		Approx. 1MΩ//Approx. 25pF				
Vertical mode		CH1, CH2, DUAL (ALT/CHOP), ADD, CH2 INV				
Chopping repetition frequency		Approx. 250kHz				
Input coupling		AC, GND, DC				
Max. Input voltage		400V peak-peak, AC frequency≤1kHz				
Bandwidth limit		20MHz				
Common mode rejection ratio		>50:1 at 50kHz sine wave (set CH1 and CH2 at same sensitivity)				
Dynamic range		5DIV at 100MHz				
Horizontal system						
Horizontal mode		MAIN (A), ALT, DELAY (B)				
A (main) sweep time		50ns~0.5s/DIV±3%, X10MAG: ±5%, continuously variable (UNCAL)				
B (delay) sweep time		50ns~50ms/DIV±3%, X10MAG: ±5%				
Sweep magnification		X10 (fastest sweep time 5ns/DIV)				
Hold off time		Variable				
Delay		Time: 1us~5s; Jitter: better than 1:20000				
Alternate separation		Variable				
Trigger system						
Trigger mode		AUTO, NORM, TV-V, TV-H				
Trigger source		CH1, CH2, LINE, EXT				
Trigger coupling		AC, DC, HFR, LFR				
Trigger slope		"+" or "-"				
Sensitivity	Mode	AUTO		NORM		TV
	Frequency	10Hz~20MHz	20MHz~100MHz	DC~20MHz	20MHz~100MHz	Sync signal
	INT	0.35DIV	1.5DIV	0.35DIV	1.5DIV	1DIV
	EXT	50mVpp	150mVpp	50mVpp	150mVpp	200mVpp
External trigger input						
Input impedance		Approx. 1MΩ//Approx. 25pF				
Max. input voltage		400V (DC+AC peak), AC frequency≤1kHz				
X-Y operation						
Mode		X-axis: selectable CH1, CH2, EXT ; Y-axis: selectable CH1, CH2, CH1 and CH				
Sensitivity		2mV~5V/DIV±3%; EXT: 0.1V/DIV ±5%				
X-axis bandwidth		DC~500kHz (-3dB)				
Phase error		≤3° at DC~50kHz				
Trigger signal output		Approx. 25 mV/div into 50Ω terminal; Frequency response: DC~10MHz; Output impedance: approx. 50Ω				
Calibration signal output		1kHz square wave; 2Vpp±2%; Output impedance: approx. 1kΩ				
Z-axis input		DC~2MHz, 5Vpp; Max. input voltage: 30V (DC+AC peak), AC frequency≤1kHz				
Cursor readout						
Cursor measurement		ΔV, ΔV%, ΔVdB, ΔT, 1/ΔT, ΔT%, Δ θ				
Cursor resolution		**1/25DIV**				
Effective cursor range		**Vertical: ±3DIV; Horizontal: ±4DIV**				
Panel setting		**Vertical: V/DIV (CH1, CH2), UNCAL, ALT/CHOP/ADD, INV, Probe factor, AC/DC/GND**				
		Horizontal: S/DIV (MTB, DTB), UNCAL, X10 MAG, delay time, HO				
		Trigger: source, coupling, slope, level, TV-V, TV-H				
		Others: X-Y, LOCK, Save/recall memory 0-9				
Special function		Time base auto-range, Panel lock, 10 sets save & recall for panel settings				
CRT						
Type		6-inch rectangular with internal graticule; 0%, 10%, 90% and 100% markers; 8x10DIV (1DIV=1cm)				
Phosphor		P31				
Accelerating voltage		Approx. 16kV				
CRT illumination		Continuously adjustable				
General						
Power source		AC110V/220V±10%, 50/60Hz, Max. 65VA				
Accessories		Power cord x1, Operation manual x1, Probe x2				
Dimension (WxHxD)		310x150x455mm				
Weight		Approx. 8kg				