100MHz CRT READOUT OSCILLOSCOPE

MYWAVE®

MOS-6100

- 100MHz bandwidth, dual channel, delayed sweep
- Time base auto-range
- Cursor readout with 7 measurements
- Panel setup lock of digital-control functions
- Buzzer alarm
- LED indicators
- TV synchronization
- Trigger signal output
- Z-axis modulation input
- SMD technology, high stability and reliability

MOS-6100

Technical Data		MOS-6100			
CRT	Type	6-inch rectangular with internal graticule 0%, 10%, 90% and 100% markers			
	Effective screen size	8×10DIV[1DIV=10mm]			
	Acceleration voltage	Approx.16kV			
	Phosphor	P31			
	Illumination	No			
Vertical System	Sensitivity	5mV~5V/DIV, 11 steps in 1-2-5 sequence			
	Sensitivity accuracy	$\leqslant$3%(5div at the center of display)			
	Vernier vertical sensitivity	Continuously variable to 1/2.5 of less of panel-indicate value			
	Bandwidth(-3dB)	DC（AC10Hz)~100MHz(2mV/div:DC~20MHz)			
	Rise time	Approx.3.5ns (2mV/DIV:17.5ns)			
	Signal delay	No			
	Input impedance	Approx.1MΩ ± 2%/Approx.25pF			
	Maximum input voltage	300Vpeak (AC: frequency 1kHz or lower);			
	Input coupling	AC, GND, DC			
	Vertical mode	CH1,CH2 ,DUAL(ALT/CHOP) ,ADD,CH2 INV			
	Chopping repetition frequency	Approx. 250kHz			
	Bandwidth limited	20MHz			
	Common mode rejection ratio	50:1 or better at 50kHz			
	Dynamic range	5div at 100MHz			
	Polarity(INV)	CH2			
Horizontal System	Horizontal mode	MAIN(A), ALT, DELAY(B)			
	A(main) sweep time	50ns~0.5s/DIV continuously variable(UNCAL)			
	B(delay) sweep time	50ns~50ms/DIV			
	Sweep time accuracy	± 3 % (± 5 % at ×10MAG)			
	Sweep magnification	10 times(maximum sweep time 5ns/DIV)			
	Hold off time	Variable			
	Delay time	1us~5s			
	Delay jitter	Better than 1:20000			
	Alternate separation	Variable			
Trigger	Trigger mode	AUTO; NORM; TV			
	Trigger source	CH1,CH2,LINE,EXT			
	Trigger coupling	AC, DC, HFR, LFR			
	Trigger slope	"+" or "-" polarity or TV sync polarity			
	Trigger Sensitivity	Mode	Frequency	INT	EXT
		AUTO	10Hz~20MHz	0.35DIV	50mVpp
			20MHz~100MHz	1.5DIV	150mVpp
		NORM	DC~20MHz	0.35DIV	50mVpp
			20Hz~100MHz	1.5DIV	150mVpp
		TV	Sync signal	1 DIV	200mVpp

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Trigger	TV sync	TV-V, TV-H
	Trigger level range	INT:4DIV or more; EXT: ± 0.4V or more
	EXT trigger input	Input impedance: Approx.1MΩ ± 5%/approx.25pF
		Max.input voltage:400V (DC+AC peak), at 1kHz
X-Y Mode	Sensitivity	X-axis, Y-axis selectable, X-axis: CH1, CH2 → 2mV~5V/DIV± 3%
		EXT: → 0.1V/DIV± 5% , Y-axis : CH1, CH2 → 2mV~5V/DIV± 3%
	X-axis bandwidth	DC ~500kHz(-3dB)
	phase error	≤3°at DC~50kHz
Output Signal	Trigger signal output	Voltage :approx.25mV/DIV into 50Ω termination
		Frequency response:DC~10MHz; Output impedance: approx.50Ω
	Calibration output	1kHz± 5% square wave, 2Vp-p ± 2%
Z-axis input	Coupling	DC
	Frequency bandwidth	DC~5MHz
	Voltage	5V or more
	Max.input voltage	30V(DC+AV peak) at 1kHz or less
Cursor readout function	Cursor measurement function	Δ V, Δ V%, Δ VdB, Δ T, 1/ Δ T, Δ T%, Δ θ
	Cursor resolution	1/25DIV
	Effective cursor range	Vertical: ± 3DIV; Horizontal: ± 4DIV
	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
Special function	TIME/DIV auto range/Panel setup lock Provided	
	Panel setting save & recall	No
Power Source		AC220V ± 10%(standard), AC110/220V ± 10%(optional), 50/60Hz, approx.35VA
Dimension/Weight		445(D) × 310(W) × 150(H)mm Approx.8.5kg