

MOS-6103

- 100MHz bandwidth, dual channel, delayed sweep
- 10 sets memory for front panel setting save & recall
- 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
- Signal delay, leading edge can be monitored
- Continuously adjustable illumination
- SMD technology, high stability and reliability



MOS-6103

Technical Data

MOS-6103

	Type	6-inch rectangular with internal graticule 0%, 10%, 90% and 100% markers
	Effective screen size	8 × 10DIV[1DIV=10mm]
CRT	Acceleration voltage	Approx.16kV
	Illumination	Continuously adjustable at front panel
	Sensitivity and accuracy	≤3%(5div at the center of display); 2mV~5V/DIV, 11 steps in 1-2-5 sequence
Vertical System	Vernier vertical sensitivity	Continuously variable to 1/2.5 of less of panel-indicate value
	Bandwidth(-3dB)	DC (AC10Hz)~100MHz(2mV/div:DC~20MHz)

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Vertical System	Rise time	Approx.3.5ns (2mV/DIV:17.5ns)			
	Signal delay	Leading edge can be monitored			
	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	
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; BW: DC~5MHz; Voltage: 5V or more				
	Max.input voltage	30V(DC+AC 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			
Special function	Trigger: source, coupling, slope, level, TV-V, TV-H				
	Others: X-Y, lock, save/recall MEM 0-9				
	TIME/DIV auto range/Panel setup lock	Provided			
	Panel setting save & recall	10sets			
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				