

MOS-6000 - Features and Benefits



- 100MHz Bandwidth,Dual Channel,Delayed Sweep
- 10 Sets Memory for Front Panel Setting Save Recall (Only MOS-6103)
- Time Base Auto-range
- Cursor Readout with 7 Measurements
- Panel Setup Lock of Digital-Control Functions
- Trigger Signal Output
- Z-Axis Modulation Input
- SMD Technology, High Stability and Reliability

Model	MOS-6103	MOS-6100		
Virtual Systems				
Sensitivity	2mV~5V/DIV,11 step in 1-2-5 sequence			
Sensitivity Accuracy	±3%(5 DIV at the center display)			
Vernier Vertical Sensitivity	Continuously variable to 1/2.5 or less than pane l-indicated value			
Frequency Bandwidth(-3dB)	DC~100MHz			
Rise Time	3.5ns			
Signal Delay	Leading edge can be monitored			
Maximum Input Voltage	400V(DC+AC)at 1kHz or less			
Input Coupling	AC,DC,GND			
Input Impedance	1MΩ±2%/25pF approx			
Vertical Modes	CH1,CH2,DUAL(CHOP/ALT),ADD(DIFF mode can be established when the CH2 is in the INV mode)			
CHOP Repetition Frequency	Approx 250kHz			
Polarity(INV)	CH2 only			
Bandwidth Limited	20MHz			
Common-mode Rejection Ration	50:1 or better at 50kHz			
Trigger				
Trigger Modes	AUTO,NORM,TV			
Trigger Source	CH1,CH2,LINE,EXT			
Trigger Coupling	AC,DC,HFR,LFR			
Trigger Slope	+/- Polarity or TV syncpolarity			
Trigger Sensitivity	Mode	Frequency	INT	EXT
	AUTO	10Hz~20MHz	0.35DIV	50mVpp
		20MHz~100MHz	1.5DIV	150mVpp
	NORM	DC~20MHz	0.35DIV	50mVpp
		20MHz~100MHz	1.5DIV	150mVpp
TV	Sync signal	1DIV	200mVpp	
Trigger Level Range	INT:±4 DIVor more;EXT: ±0.4Vor more			
TV Sync	TV-V,TV-H			
Max.External Input Voltage	400V(DC+AC peak) at 1kHz			
External Input Impedance	±1M5% Ω/25PF approx.			

Specification

Specifications	Model	MOS-6103	MOS-6100
	Horizontal Deflection System		
	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	±3%(±5% at ×10MAG)	
	Sweep Magnification	×105ns/DIV(maximum sweep time)	
	Hold off time	Variable	
	Delay Time	1us~5s	
	Delay Jitter	1/20000 or less	
	Alternate Separation	Variable	
X-Y OPERATION			
	Sensitivity Accuracy	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°C Or less at DC~50kHz	
Cursor Readout Function			
	Cursor Measurement Function	ΔV,ΔV%,ΔVdB,ΔT,1/ΔT,ΔT%,ΔΘ	
	Cursor Resolution	1/100DIV	
	Effective Cursor Range	Vertical :±3DIV horizontal :±4DIV	
	Panel setting	Vertical: V/DIV(CH1,CH2),UNCAL,ADD,INV,P10,AC/DC/GND Horizontal: S/DIV(MTB,DTB) ,UNCAL×10MAG,Delay time Hold-off Trigger:Source,Coupling,Slope,Level,TV-V/TV-H Others:X-Y,LOCK,SAVE/RECALL,MEM 0-9	
CRT			
	Type	6-inch rectangular type with internal graticule 0%,10%,90% and 100% markers.8×10DIV(1DIV=25px)	
	Phosphor	P31	
	Acceleration voltage	Approx.16KV	
Z-AXIS Input			
	Continuous adjustable	External intensity modulation	
	Coupling	DC	
	Voltage	5V or more	
	Maximum Input Voltage	30V(DC+AC peak) at 1kHz or less	
	Bandwidth	DC~5MHz	
Trigger Signal Output			
	Voltage	25mV/DIV approx. in 50Ω termination	
	Frequency Response	DC~10MHz	
	Output Impedance	50Ω approx	
Calibrator Output			
	Waveform	1kHz ±5% square wave	
	Voltage	2Vpp±2%	
	Impedance	2kΩ approx	
Special Function			
	TIME/DIV Auto Range	Provided	----
	Panel Setting Save &Recall	10 sets	----
	Panel Setups Lock	Provided	----
Mechanical Specification			
	Dimensions	310(W)mm*150(H)mm*455(D)mm	
	Weight	Approx.9kgs	