



DC - 30MHz DUAL TRACE OSCILLOSCOPE

SPECIFICATION

Y Deflection Factor :

Operating Mode	: Y1 , Y2 , ALT , CHOP , ADD , X - Y
Deflection Factor (Y1 or Y2)	: 5mV/div ~ 10V/div in 1-2-5 sequence , Altogether 11 steps . Error $\pm 5\%$
MAG Rate	: X 5 Error $\pm 5\%$
Frequency Bandwidth	: AC : 10 Hz ~ 30 MHz - 3dB DC : 0 ~ 30 MHz - 3dB
Freq. Bandwidth by MAG	: AC : 10 Hz ~ 5 MHz - 3dB DC : 0 ~ 5 MHz - 3dB
Rising Time	: About 12ns , about 70ns by MAG
Overshoot	: $\leq 8\%$
Damp	: $\leq 8\%$
Coupling Mode	: AC , \perp , DC
Input Implement	: $1 \pm 5\% M\Omega // \leq 30pF$ (direct) $10 \pm 5\% M\Omega // \leq 23pF$ (by probe)
Max Safe Voltage	: 400V (DC + AC p-p)
Slope Inverting	: Y2 only

Triggering System :

Triggering Source	: Y1 , Y2 , ALT , Power , EXT
Coupling	: AC / DC (EXT) , NORM / TV
Polarity	: + , -
Synchronized Freq. Range	: Auto : 50Hz ~ 30 MHz
Min. Synchronized Trigger Level	: Trig : 5Hz ~ 30 MHz INT : 1.5DIV ; EXT : 0.2V p-p TV : INT : 2div EXT : 0.3V p-p
Input Implement (by EXT trigger)	: $1 \pm 5\% M\Omega // \leq 30pF$
Max Safe Voltage	: 400V (DC + AC p-p)

Horizontal System:

Sweep Mode	: AUTO , TRIG , LOCK , SINGLE
Sweep time Factor	: $0.1 \mu s / div \sim 0.2s / div$ in 1 - 2 - 5 sequence Altogether 20 steps Error $\pm 5\%$
MAG	: X 5 Error $\pm 10\%$



X - Y Mode :

Signal Input	: X - Axis : Y1 , Y - Axis : Y2
Deflection Factor	: Same as Y1
Frequency Response	: AC : 10 Hz ~ 1 MHz - 3dB DC : 0 Hz ~ 1 MHz - 3dB
Input Implement	: Same as Y1
Max Safe Voltage	: Same as Y1
X - Y Phase Difference	: $\leq 3^\circ$ (DC ~ 50 KHz)

Z - Axis System :

Min Input Level	: TTL Level
Max Input Level	: 50V (DC + AC p-p)
Input Resistance	: 10 K Ω
Input Polarity	: Low Level to brighten
Frequency Range	: DC ~ 5 MHz

Signals for Probe Calibration:

Waveform	: Square wave
Amplitude	: $0.5 \pm 2\% V p-p$
Frequency	: $1 \pm 2\% KHz$

CRT :

Persistence	: Middle Persistence
Working Area	: 8cm X 10cm (1cm = 1div)

Power Supply :

Power	: $220 \pm 10\% V$
Frequency	: $50 \pm 5\% Hz$
Power Consumption	: About 35 VA

CROWN ELECTRONIC SYSTEMS