

DS-203- 20MHz DIGITAL STORAGE OSCILLOSCOPE



* MAX. SAMPLING RATE 1000MHz/SEC.

Input Impedance: 1Mf(//25PF

20 Mhz. Digital Storage Oscilloscope

* FULL RANGE DSO TIMEBASE(0.5S/DIV TO 0.1US/DIV) * SLOW MAG. (x100) MAX. 50S/DIV. * EQUIVALENT MODE BANDWIDTH 20MHz * PRE-TRIGGER 0%, 25%, 50%, 75%. * MEMORY 2x2048x8 BIT. * ROLL, SINGLE, X-Y OPERATION. CATHODE RAY TUBE 6 inch diagonal, rectangular screen with internal graticule 8 x 10 DIV (1 DIV = 1 cm). P31 phosphor, 2.1kV accel voltage. VERTICAL AMPLIFIERS ($CH\ I\ 1$ and $CH\ 2$) Sensitivity: 5 mV / div to 5 V / div (X1 mode).1 mV / div to 1 V / div (X5 mode).1-2-5 sequence, 10 step attenuator. Vrnier control provides fully adjustable attenuation between steps. Accuracy: ± 3% (X1 mode). ± 5% (X5 mode). Input Resistance:1 M£[± 2 % Input Capacitance: 25 pF ± 10 pF Frequency Response: 5 mV to 5 V / div (CAL.):DC to 20 MHz (-3dB). 1 mV / div (CAL.):DC to 5 MHz (-3dB). Rise Time: Approximately 17.5ns. Operating Modes : CH 1.CH 2.ALT. CHOP. ADD. Polarity Reversal (lnvert): CH 2 only. Maximum Input Voltage: 400 V dc + ac peak. Maximum Undisturbed Amplitude DC-to-20- MHz: 4 divisions. DC-to-10- MHz: 8 divisions. HORIZONTAL AMPLIFIER (Input through channel input) X-Y mode:switch selectable using X-Y switch. CH 1:X axis. CH 2:Y axis. Sensitivity: 1mv/div to 5v/div Accuracy's-Axis: ± 3%,X-Axis: ± 6%

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General Trading

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Frequency Response: DC to 1 MHz typical (-3dB).
X-Y Phase Difference: Approximately 3¢X at 50 KHz.
Maximum Input Voltage: 400Vdc+ac pack
SWEEP SYSTEM
Sweep Speed:
0.1~\mu s / div to 0.5~s / div in 1-2-5 sequence, 21 steps.
Vernicr control provides fully adjustable sweep time between steps.
Accuracy: ±3%
Sweep Magnification:
10x, \pm 6% ( 0.1~\mu s and 0.2~\mu s ranges uncelebrated when
X10 is engaged ).
Holdoff:
Continuously adjustable from NORM to 5 times normal.
TRIGGERING
Trigger Modes: AUTO ( free run ) or NORM
Trigger Source: CH 1, CH 2, ALT, EXT, LINE.
Maximum External Trigger Vlotage:300 V dc + ac Peak
Trigger Coupling:
AUTO(AC):30 Hz to 30 MHz
TV-H(AC): Used for triggering from horizontal sync pulses.
TV-V(DC): Used for triggering from vertical sync pulses.
DIGITAL STORAGE FACILITIES
Memory: 2K words per channel(2 x 2048 x 8 bit)
Maximum Sampling Rate:1000MHz/sec
( Equivalent 0.1"fgs/div )
Vertical Resolution: 8 Bit (25 Lerels/div)
Vertical Accuracy:5mV/div - 5V/div: ± 3%
1mV/div: \pm 5%
Horizontal Resolution:
2048 points for 10 div.
DSO Timebase: 0.1 µs/div to 0.5s/div(21 Range).
Accuracy: ± 3% ( 0.1 µs and 0.2 µs range Uncalibrated )
Slow:x100.10ms/div \sim 0.5s/div ( 6 Range). extern to 50s/div.
Equivalent Mode Range:50 \mu \text{s}/\text{div} to 0.1us/div ( 9 Range ).
Equivalent Mode Bandwidth: 20 MHz ( -3dB )
Roll Mode Range:
0.5s/div to 10 ms/div ( 6 Range).x 100 extend to 50s/div.
Real Time Sampling Rate: 10 MHz/sec.
Operating Mode:
Roll. Save ALL. Save CH 2. X-Y. Single.
Pre-Trig( 0%.25%.50%.75% ) Plot out.
CH1 out put : 0.2 V/div
CH2 out put: 0.2V/div
Plot: 1 / 10 of time/div setting.
Trace Rotation
Electrical, front panel adjustable.
Power Requirements:
115/230VAC \pm 10%, 50 / 60 Hz, approximately 60 W.
Dimensions:324 x 132 x 398 mm( 12.8 x 5.2 x 15.6" ).
Weight: Approximately 8.5kg (18.7 lbs).
C E STANDARD:
E.M.C. Regulations-1992 ( E.C.Directive 89/336/EEC )
EN 50081-1 Emissions.
EN 50082-1 limmunity.
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