Realtime Oscilloscope

Part No. 01OSFG5020G

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Main Features

- 20MHz, 2Ch, Dual trace, 1MHz function generator
- DC to 20MHz bandwidth, 2 channels, Dual trace
- 6" rectangular CRT with internal graticule
- Variable hold-off for observation of wave forms with complex periods
- Vertical deflection magnification X 5
- Sensitivity 1mV/div
- ALT triggering function in VERT mode
- CH2 polarity inversion switch
- High sensitivity X?Y mode
- Sweep magnification (X 5)
- TV sync. Separator circuit for stable TV signal observation
- 250V maximum input voltage
- Built-in 1MHz function generator with TTL output

CRT

- Configuration and useful screen : 6 inch rectangular screen with internal graticule, 8X10div.
(1div = 1cm) marking for measurement of rise time, 2mm subdivisions along the central axis. - Acceleration potential : +1.9kv approx.(ref. Cathode)
- Phosphor : P31
- Focusing : provided
- Trace rotation : provided
- Intensity control : provided

VERTICAL DEFLECTION

- DC coupled(-3dB) : DC to 20MHz normal / DC to 7MHz magnified (X 5)
- AC coupled(-3dB) : 10Hz to 20MHz normal / 10Hz to 7MHz magnified (X 5)
- Modes : CH1, CH2, ADD, DUAL
(CHOP : Time/div. switch from 0.2s to 5ms, ALT : Time/div. switch from 2ms to 0.2¥is) - Deflection factor (normal) : 5mV/div. to 5V/div. in 10 calibrated steps of 1-2-5 sequence.
Continuously variable between steps at least 1:2.5 X 5.
- Deflection factor (5MAG) : 1mV/div. to 4V/div. in 10 calibrated steps.
- Accuracy : normal ¡¾3%, magnified : ¡¾5%
- Input impedance : approx. 1M§Ù in parallel with 25pF
- Maximum input voltage : direct 250V (DC + peak AC)
- Input coupling : AC, GND, DC

- Rise time : 17.5ns or less (50ns or less in 5MAG)
- CH1 output : 20mV/div. into 50§Ù / DC to 10MHz(-3dB)
- Polarity inversion : CH2 only

HORIZONTAL DEFLECTION

- Sweep mode : X-Y, x1, x10
- Time base A : 0.2¥is/div. to 0.2s/div. in 19 calibrated steps of 1-2-5 sequence uncalibrated continuous control between steps at least 1:2.5
- Hold-off time : variable with hold-off control
- Sweep magnification : 10 times(maximum sweep rate : 20ns/div.) 50ms/div. off A time base are uncalibrated
- Accuracy : ¡¾3%(0¡É~ 50¡É), ¡¾5%(additional error for magnifier : ¡¾2%)

TRIGGER SYSTEM

- Modes : AUTO, NORM, TV-V, TV-H
- Source : CH1, CH2, LINE, EXT
- Coupling : AC
- Slope : + or -
- Sensitivity and frequency in AUTO, NORM 20HZ - 2MHz : 0.5div. in INT / 0.2Vp-p in EXT
- Sensitivity and frequency in AUTO, NORM 2Hz - 20MHz : 1.5div.in INT / 0.6Vp-p in EXT
- TV-V, TV-H : at least 1div. or 1.0Vp-p
- External trigger input impedance : 1M§Ù in parallel with approx. 30pF
- Maximum input voltage : 250V (DC + AC peak)

X-Y OPERATION

- Sensitivity : same as vertical deflection for both X-axis(CH1) and Y-axis(CH2) except accuracy ¡¾ 5% in X-axis
- X-axis bandwidth : DC to 500kHz (-3dB)
- X-Y phase difference : 3¡Æ or less as DC to 50kHz

CALIBRATOR

- Probe adjustment : approx. 1kHz frequency, 0.5V(¡¾3%) square wave with 50% duty ratio

FUNCTION GENERATOR

- Test voltage : approx. 4.5mVrms(open circuit)
- Test current : max. 6.6mArms(short circuit)
- Test frequency : approx. 60Hz

POWER SUPPLY	- Line voltage range : 100V(90-110V) with 250V 2A fuse, 120V(108-132V) with 250V 2A fuse, 220V(198-242V) with 250V 1A fuse or 230V(216-250V) with 250V 1A fuse - Line frequency : 50/60Hz - Power consumption : approx. 50W
PHYSICAL CHARACTERISTICS	- Weight : 7.4kg - Dimension : 320mm(W) X 140mm(H) X 430mm(L)
OTHERS	- Accessories including : Operation manual, Spare fuse, Power cord - Optional accessories (sold separately) : Probe