

Front View

9

11, SPECIFICATIONS

Vertical deflection

Input sensitivity

x1 5mV/div to 5V/div (1,2,5-step 10 stages) x5 1mV/div to 1V/div (1,2,5-step 10 stages)

Sensitivity accuracy rate

x1 ± 3% x5 ± 5%

Attenuates continuously to 2.5 times or more of the indicated value in each range

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Frequency bandwidth (8 div Reference)

x1 DC to 10MHz \begin{pmatrix} +1 \\ 3 \end{pmatrix} dB)

AC 20Hz to 10MHz \begin{pmatrix} +1 \\ -3 \end{pmatrix} dB)

x5 DC to 7MHz \begin{pmatrix} +1 \\ -3 \end{pmatrix} dB)

AC 20Hz to 7MHz \begin{pmatrix} +1 \\ -3 \end{pmatrix} dB)
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Rise time

x1 approx. less than 35ns x5 approx. less than 50ns

Over shoot

 $x1 \pm 3\%$ (at 100 kHz Rise time more than 100ns.) $x5 \pm 5\%$ (at 100 kHz Rise time: ore than 100ns.)

Input impedance

Direct 1M Ω , approx. 30pF

Maximum input voltage

Direct 500V_{p-p} or 300V (DC+ AC peak at 1 kHz) When using probe 600V (DC+AC peak at 1kHz)

Input coupling

AC-GND-DC

Magnifying function

x5

Operation mode CH1, CH2, DUAL, ADD, DIFF

Dynamic range More than 8 div.

Phase shift

Within 3° (DC to 50kHz)

> Calibrator

Waveform

1kHz square wave, within ±10%

Voltage

0.5V ± 3%

> CRT

CRT

E2827B1 (5"-diameter storage tube)

Recording speed

25 div/ms 50 div/ms (enhanced)

Acceleration voltage

Approx. 2kV

Screen area

8 div x10 div, 1 div 9.5mm

Trace rotation

Provided

Scale illumination

Variable edge lighting

• Remote erase

Starts under non-voltage loope Erase pulse width 0.5 sec, max. 0 to +5V (DC+AC peak at 1Hz)

• Power supply

VOLTAGE	FUSE
100 V (90 to 110 V)	2A
120 V (108 to 132 V)	2 A
220 V (198 to 242 V)	1A
240V (216 to 264 V)	1A

Power supply frequency

50/60Hz

Power consumption

Approx. 65W

• Temperature

Recommended range: $+10 \text{ to } +35^{\circ}\text{C}$ (50 to 95°F)

Operational limit : 0 to 40°C (32 to 104°F) Durable limit for storing and transportation -20 to +70°C (-4 to +158°F)

• Humidity

35 to 85 %.

\circ Dimensions

Approx.

275(W) x190(H) x 400(D) mm (10.8x7.5x15.7 inch) (Dimension of cabinet)

• Weight

Approx. 10.5 kg (23.1 lb.)

Horizontal deflection

Sweep mode

AUTO, NORM, SINGLE, TV(-)

Sweep time

2µ s/div -2s/div(1-, 2-, 5-step 19 stages)

Maximum sweep time

200ns (at MAG x10)

Sweep variable

2.5 times or more

Sweep time accuracy

± 3% (at x1) ± 5% (at x10 MAG)

Sweep magnification

x10

Time linearity ±3% (at x1) ±5% (at x10MAG)

Position adjustment Possible

• Triggering Coupling

AC, DC

Triggering polarity

+, -

Triggering sensitivity and frequency

Frequency	Internal	External
DC to 5 MHz	0.5 div.	200 mV
5MHz to 10 MHz	1.0 div.	800 mV

 $\begin{array}{ll} \textbf{TV-V sensitivity} & SYNC \mbox{ section more than 1 div or} \\ 1 \ V_{p-p} \end{array}$

External trigger input impedance

Approx. $1M\Omega$, approx. 30pF

Maximum input voltage

Direct 300V (DC+AC peak at 1 kHz) At using x10 probe 600V (DC+AC peak at 1kHz)

Z-AXIS brightness modulation

Voltage

Brightness is reduced with a positive signal of +5V or more

Frequency bandwidth

DC to 2 MHz

Input impedance

Approx. 47 k Ω

Maximum input withstand voltage

30 V (DC+AC peak)

• X-Y operation

X input CH1 Y input CH2 Sensitivity Same X frequency DC t bandwidth

Same as vertical axis

DC to 500 kHz (-3dB)

