



Static deflection type CRT
DC to 5 MHz

Outline

The COS1610X-Y is a monitor display unit using a static deflection type CRT. It is featured with DC to 5 MHz wide-band frequency coverage in X-, Y-, and Z-axis, and displays realistic images. Its applications include displays of data resulted from various measuring, analyzing, and inspection systems.

Features

- **Mechanical design suitable for built-in use**
The design enables not only a use on a bench as standard. Optional rack mount use is also possible.
- **Wide-band response**
A wide-band frequency response enables higher accuracy display of signals. Following this principle, all X-, Y-, and Z-axis are designed to cover a wide-band, DC to 5MHz.
- **Spot size of 0.45 mm**
High quality, high resolution display of dotted characters can be achieved with a fine spot size of 0.45 mm.
- **Settling time shorter than 0.5 μs**
- **Employment of dynamic focusing circuit**
Defocusing is automatically corrected.
- **Wide range of power input voltage covered without selection by switch (90 to 264 VAC)**
- **Attachable detachable CRT graduation sheet**

Specifications

- **CRT**
 - Spot size 0.45 mm at 0.5 μA
 - CRT configuration 6 inch, rectangular, flat
 - Display area (H × W) 82 × 102 mm
 - Fluorescent material P31 (P7 optionally available)
 - Graduation 8 × 10 div (finer division optionally available)
 - Display linearity Less than 5% in the event of scanning 2.5 vertical divisions (2.5 horizontal divisions) at any part of the CRT screen
- Acceleration voltage 12 kV
- **Horizontal (x-axis) and vertical (Y-axis) amplifiers**
 - Frequency response DC to 5 MHz (-3 dB)
 - Rise time Less than 70 ns
 - Settling time Settling to final position within 0.5 μs
 - Deflection sensitivity 80 to 200 mV/div (on CRT screen)
(1/2, 1/5, 1/10 ATT optionally available)
- Input impedance 1 MΩ ±2%, approx. 55 pF
(50Ω optionally available)
- X-Y phase difference Within 3° up to 1 MHz
- Max. input voltage ±50 V (DC + AC peak)
- Dynamic range Greater than ±10 div from the center of CRT screen
- Crosstalk Less than 0.05 div
- Drift Less than 0.1 div
- **Z-axis amplifier**
 - Input sensitivity 0.5 to 2 V (internally)
 - Frequency response DC to 5 MHz
 - Rise time Less than 70 ns
 - Input impedance 1 MΩ ±2%, approx. 45 pF
(50Ω optionally available)
- Max. input voltage ±50 V (DC + AC peak)
- **Others**
 - Power supply 90 to 264 VAC, 50/60 Hz
 - Power consumption Approx. 34 VA
 - Weight approx. 5.6 kg
 - Dimensions (MAX) 134W × 123H × 363Dmm
(138W × 123H × 390.5Dmm)
 - Temperature/humidity 0 to 40°C / less than 90%
(for guaranteeing specifications)

Dimensions

