

MONITOR TUBES

- 90° deflection angle
- 31 cm (12 in) face diagonal; rectangular glass
- 20 mm neck diameter
- white or green screen phosphor

QUICK REFERENCE DATA

Deflection angle	90°
Face diagonal	31 cm (12 in)
Overall length	280 mm
Neck diameter	20 mm
Heating	11 V/140 mA
Grid 2 voltage	130 V
Cathode	quick heating

APPLICATION

These monitor tubes are used for information display and data terminals, e.g. in video monitoring equipment, computer terminals, word processors.

The tubes are supplied with different screen phosphors: white (W) or green (GH or GR). They are available with safety panels, which are etched to avoid reflections of light sources.

The tubes can be supplied with additional deflection unit.

AVAILABLE VERSIONS

	non-push-through versions	push-through versions
monitor tubes without etched safety panel without lugs	M31-330W M31-330GH M31-330GR	
monitor tubes with etched safety panel without lugs	M31-331W M31-331GH M31-331GR	
monitor tubes without etched safety panel with lugs	M31-334W M31-334GH M31-334GR	M31-332W M31-332GH M31-332GR
monitor tubes with etched safety panel with lugs	M31-333W M31-333GH M31-333GR	

blue binder, tab 3



ELECTRICAL DATA

Focusing method	electrostatic
Deflection method	magnetic
Deflection angles	
diagonal	approx. 90°
horizontal	approx. 83°
vertical	approx. 65°
Direct interelectrode capacitances	
cathode to all other electrodes	approx. 5 pF
grid 1 to all other electrodes	approx. 8 pF
external conductive coating to anode	max. 900 pF min. 450 pF
Heater voltage	11 V
Heater current at 11 V	140 mA
Electron gun	
ion trap	none
focus lens	unipotential

OPTICAL DATA

Phosphor number	W, GH and GR (P4, P31 and P39 respectively, according to JEDEC)
Light transmission at centre of face plate	approx. 50%
of safety panel	approx. 61%
Anti-reflection treatment	etched safety panel (if present)

