**LIMITING VALUES** (Absolute maximum rating system)

| | | | | |
|---|---|---|---|---|
| Final accelerator voltage | $V_{g8(\ell)}$ | max. | 18 | kV |
| Post deflection accelerator mesh electrode voltage | $V_{g7}$ | max. | 2500 | V |
| Geometry control electrode voltage | $V_{g6}$ | max. | 2500 | V |
| Interplate shield voltage | $V_{g5}$ | max. | 2500 | V |
| Astigmatism control electrode voltage | $V_{g4}$ | max. | 2500 | V |
| Focusing electrode voltage | $V_{g3}$ | max. | 2500 | V |
| First accelerator voltage | $V_{g2}$ | max. | 2500 | V |
| Control grid voltage | $-V_{g1}$ | max. | 200 | V |
| | | min. | 0 | V |
| Cathode to heater voltage | | | | |
| positive | $V_{kf}$ | max. | 125 | V |
| negative | $-V_{kf}$ | max. | 125 | V |
| Voltage between astigmatism control electrode and any deflection plate | $V_{g4/x}$ | max. | 500 | V |
| | $V_{g4/y}$ | max. | 500 | V |
| Grid drive, average | | max. | 20 | V |
| Screen dissipation | $W_\ell$ | max. | 8 | mW/cm² |
| Control grid circuit resistance | $R_{g1}$ | max. | 1 | MΩ |



PHILIPS



# INSTRUMENT CATHODE-RAY TUBE

14 cm diagonal rectangular flat-faced oscilloscope tube with domed mesh and metal-backed screen with internal graticule. The tube has side connections to the x and y-plates, and is intended for use in compact oscilloscopes with up to 150 MHz bandwidth.

## QUICK REFERENCE DATA

| | | |
|---|---|---|
| Final accelerator voltage | $V_{g8(\ell)}$ | 16,5 kV |
| Display area | | 100 x 80 mm² |
| Deflection coefficient | | |
| horizontal | $M_x$ | approx. 8,7 V/cm |
| vertical | $M_y$ | approx. 4,6 V/cm |

## SCREEN

Metal-backed phosphor

| | colour | persistence |
|---|---|---|
| D14-300GH/93 | green | medium short |

| | |
|---|---|
| Useful screen dimensions | ⩾ 100 x 80 mm² |
| Useful scan | |
| horizontal | ⩾ 100 mm |
| vertical | ⩾ 80 mm |
| Spot eccentricity in horizontal and vertical directions | ⩽ 6,5 mm |

## HEATING

Indirect by a.c. or d.c.; parallel supply

| | | |
|---|---|---|
| Heater voltage | $V_f$ | 6,3 V |
| Heater current | $I_f$ | 300 mA |

blue binder, tab 4

PHILIPS