

TYPICAL OPERATING CONDITIONS ³⁾

Accelerator voltage	$V_{g2,g4,g5,l}$	1000 V
Astigmatism control voltage	$\Delta V_{g2,g4,g5,l}$	± 25 V ¹⁾
Focusing electrode voltage	V_{g3} approx.	150 V
Control grid voltage for visual extinction of focused spot	V_{g1} approx.max.	- 30 V
Deflection factor, horizontal	M_x approx.	29 V/cm
vertical	M_y approx.	13 V/cm
Deviation of linearity of deflection	max.	2 % ²⁾
Useful scan, horizontal	min.	60 mm
vertical	min.	50 mm

LIMITING VALUES (Absolute max. rating system)

Accelerator voltage	$V_{g2,g4,g5,l}$	max. 2200 V min. 900 V
Focusing electrode voltage	V_{g3}	max. 2200 V
Control grid voltage, negative	$-V_{g1}$	max. 200 V min. 0 V
Cathode to heater voltage	V_{kf}	cathode connected to heater
Grid drive, average		max. 20 V
Screen dissipation	W_l	max. 3 mW/cm ²

¹⁾ The astigmatism control electrode voltage should once be adjusted for optimum spot shape in the centre of the screen. For any necessary adjustment the control voltage will be within the stated range, if the mean x and y plate potential are equal to $V_{g2,g4,g5,l}$.

²⁾ The sensitivity at a deflection of less than 75% of the useful scan will not differ from the sensitivity at a deflection of 25% of the useful scan by more than the indicated value.

³⁾ The mean x and y plate potential should be equal to $V_{g2,g4,g5,l}$.

INSTRUMENT CATHODE-RAY TUBE

development sample data

7 cm diameter flat faced monoaccelerator oscilloscope tube primarily intended for use in inexpensive oscilloscopes and monitoring devices.

QUICK REFERENCE DATA

Accelerator voltage	$V_{g2,g4,g5,l}$	1000 V
Display area		60 x 50 mm ²
Deflection factor, horizontal	M_x approx.	29 V/cm
vertical	M_y approx.	12 V/cm

SCREEN

	colour	persistence
D7-19GH	green	medium short

Useful screen diameter min. 64 mm

Useful scan at $V_{g2,g4,g5,l} = 1000$ V

horizontal	min. 60 mm
vertical	min. 50 mm

The useful scan may be shifted vertically to a maximum of 4 mm with respect to the geometric centre of the faceplate.

HEATING: Indirect by A.C. or D.C., parallel supply

Heater voltage	V_f	6.3 V
Heater current	I_f	300 mA

These data, based on the specifications and measured performance of development samples, afford a preliminary indication of the characteristics to be expected of the described product. Distribution of development samples implies no guarantee as to the subsequent availability of the product