

DEVELOPMENT SAMPLE DATA

This information is derived from development samples made available for evaluation. It does not form part of our data handbook system and does not necessarily imply that the device will go into production

D14-260GH

Final Sept 78

INSTRUMENT CATHODE-RAY TUBE

14 cm diagonal, rectangular flat faced oscilloscope tube with post-deflection acceleration mesh, primarily intended for use in compact oscilloscopes with 15 to 20 MHz bandwidth.

QUICK REFERENCE DATA

Final accelerator voltage	$V_{g7(\ell)}$	4 kV
Display area		100 x 80 mm ²
Deflection coefficient		
horizontal	M_x	approx. 20 V/cm <i>19.5</i>
vertical	M_y	approx. 10 V/cm <i>10.5</i>

SCREEN

	colour	persistence
D14-260GH	green	medium short

Useful screen dimensions	≥	100 x 80 mm ²
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

MECHANICAL DATA

Mounting position: any

The tube should not be supported by the base alone and under no circumstances should the socket be allowed to support the tube.

Net mass	approx. 1050 g
Base	14 pin, all glass

final accelerator contact

blue binder, tab 4



PHILIPS

January 1978

*Prove = 9,
bl = k*

Dimensions and connections

See also outline drawing

Overall length	≤	333 mm
Face dimensions	≤	100 x 120 mm ²

Accessories

Socket, supplied with tube	type 55566
Mu-metal shield	type 55591
Final accelerator contact connector	type 55569

FOCUSING

electrostatic

DEFLECTION

double electrostatic

x-plates

symmetrical

y-plates

symmetrical

Angle between x and y-traces

$90 \pm 1^\circ$

Angle between x-trace and horizontal axis of the face

≤ 5° *

If use is made of the full deflection capabilities of the tube the deflection plates will block part of the electron beam, hence a low impedance deflection plate drive is desirable.

CAPACITANCES

x_1 to all other elements except x_2	$C_{x1(x2)}$	5.8 pF <i>7</i>
x_2 to all other elements except x_1	$C_{x2(x1)}$	5.4 pF <i>6.5</i>
y_1 to all other elements except y_2	$C_{y1(y2)}$	3.4 pF <i>4</i>
y_2 to all other elements except y_1	$C_{y2(y1)}$	2.8 pF <i>3.5</i>
x_1 to x_2	C_{x1x2}	2.1 pF <i>2.2</i>
y_1 to y_2	C_{y1y2}	1.1 pF
Control grid to all other elements	C_{g1}	6.1 pF
Cathode to all other elements	C_k	5 pF

* The tube is provided with a rotation coil, concentrically wound around the tube neck, enabling the alignment of the x-trace with the mechanical x-axis of the screen. The coil has 1000 turns and a resistance of 400 Ω . Under typical operating conditions, max. 30 ampere-turns are required for the max. rotation of 5° . This means the required current is max. 30 mA at a required voltage of 12 V.

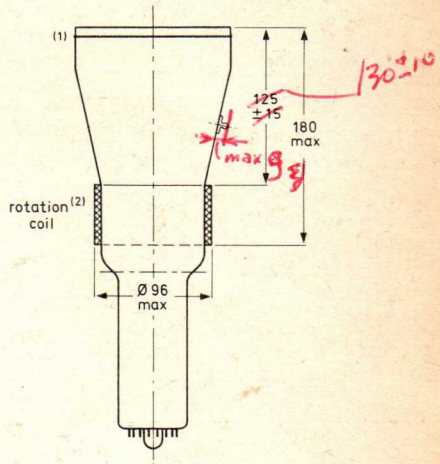
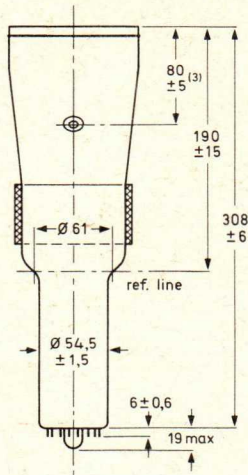
Notes to the drawings on opposite page.

1. The bulge at the frit seal may increase the indicated maximum dimensions by not more than 2 mm.
2. The coil is fixed to the envelope by means of adhesive tape.
3. The centre of the contact is situated within a square of 10 mm x 10 mm around the true geometrical position.

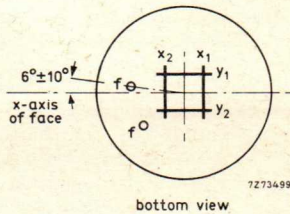
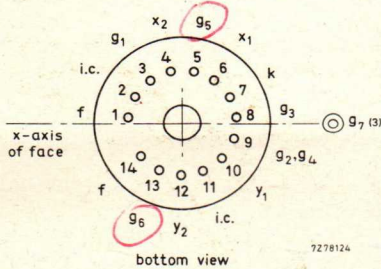
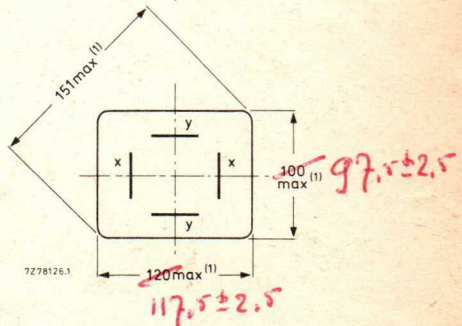
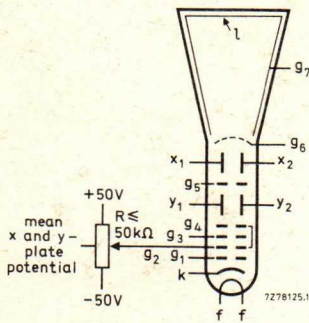
DIMENSIONS AND CONNECTIONS

Dimensions in mm

For notes to the drawings see bottom of opposite page.



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*plaatje spoel in topus
hoogste knopje*

