

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

L14-131GH/55

INSTRUMENT CATHODE-RAY TUBE

14 cm-diagonal rectangular flat-faced direct-view storage tube with split-beam writing gun, variable persistence and internal graticule, intended for oscilloscope applications.

QUICK REFERENCE DATA

Final accelerator voltage	V_{g10} (ℓ)	8,5 kV
Useful scan (10 x 8 divisions of 9 mm)		90 x 72 mm
Deflection coefficient		
horizontal	M_x	9,5 V/div
vertical, system 1	$M_{y'}$	8,5 V/div
vertical, system 2	$M_{y''}$	8,5 V/div
Overlap of the systems		100 %
Writing speed		1,25 div/μs

OPTICAL DATA

Screen		metal-backed phosphor
type		GH, colour green
persistence, non-store mode		medium short
persistence, store mode		variable
Useful screen dimensions	min.	90 x 72 mm
Useful scan		
horizontal	min.	90 mm
vertical (each system)	min.	72 mm
overlap		100 %
Spot eccentricity		
in horizontal direction	max.	6 mm
in vertical direction	max.	9 mm

The scanned raster can be aligned with the internal graticule by means of correction coils fitted around the tube by the manufacturer.

HEATING

Writing section

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

Heater voltage	V_f	6,3 V
Heater current	I_f	300 mA

Viewing section

Indirect by d.c.; parallel supply

Heater voltage	$V_{f'}$	6,3 V
Heater current	$I_{f'}$	300 mA
Heater voltage	$V_{f''}$	6,3 V
Heater current	$I_{f''}$	300 mA

blue binder, tab 4



PHILIPS

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1

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. The tags near the screen should not be subjected to mechanical stress.

Net mass approx. 1,1 kg**Base** 14 pin, all glass**Dimensions and connections**

See also outline drawing, pages 4 and 5

Overall length (socket included) max. 445 mm**Face dimensions** max. 100 x 120 mm**Accessories****Socket (supplied with tube)** type 55566**Side contact connector (16 required)** type 55561**FOCUSING** electrostatic**DEFLECTION** double electrostatic

x-plates symmetrical

y-plates symmetrical

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

Angle between x and y traces, each beam 90°**Angle between x-trace and x-axis of the internal graticule** 0°**Angle between corresponding y-traces at the centre of the screen** max. 45'