

ELECTRONIC TUBE REFERENCE

AW5991

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

European rectangular monochrome television picture tube with electrostatic focusing, magnetic deflection, and a metal-backed or aluminized screen. Manufacturer documentation supports high-voltage direct-view receiver service with compact wide-angle geometry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 360 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	18000 V
CRT section. Maximum ratings, operating conditions, capacitances, optical and mechanical values are preserved as parameters where published.	

Large rectangular 110-degree television picture tube with electrostatic focusing, magnetic deflection, grey glass, and metal-backed screen.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V2

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · Cathode Ray

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen color	White	TelevisionCRT
Focusing	Electrostatic	TelevisionCRT
Deflection	Double magnetic	TelevisionCRT

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen useful dimension	566 mm	TelevisionCRT
Final accelerator voltage	18 kV	TelevisionCRT
Grid No.2 voltage	500 V	TelevisionCRT
Heater voltage	6.3 V	TelevisionCRT
Heater current	300 mA	TelevisionCRT



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1976 ITT Picture Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1976 ITT PICTURE TUBES

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U@	6.3 V	—
i 03L	6 %	—
Ug3gsa	18 kV	—
Uga 400	500 V	—
Ut @ 0...400	0-400 V	—
94 39 ¢ (U1} cutorf@40... 77	50-93 V	—
U	9395 a	—
Us3a55 min @	13 kV	—
Published value	9 k	—
9 k R33a58 min (2)	16 kohm	—
5 Ua4 max	1000 V	—
f f ("Usii) max	500 V	—
g4 min	470 ohm	—
1. Generalities Us2 max	550 V	—
Electron Gun Tetrode with Einzel- Qfl? min	350 V	—
Base German Standard Ug1 o max	2 V	—
DIN 44431 (=Ug1) max	150 V	—
Deflection Method Magnetic Z31 max	0.5 MQ	—
Horizontal 99° Pimax	10 mW	—
m» Vertical ~ 82° U_ilkmax1 @ &	410 V	—
Neck Diameter	286 mm	—
Neck Diameter _286mm = U-f.- "l(max 2 @ @ (2)	200 V	—
Face Shape Spherical U_ flk p max	300 V	—
Material Filter-Glass u + flk max	125 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
{Light Transmission U-&-fl'knmax	180 V	—
Published value	75 %	—

CIRCUITDESIGNRATINGS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Colour Temperature 12	0 °	—
Minimum Useful 489 x	385 mm	—
Dimensions Diagana! §	66 mm	—
Overall Length 358 f	8 mm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Weight	12 kg	—
€gl approx.	6 pF	—
Ok approx.	5 pF	—
Cg3gfa/m min	1700 pF	—
Cgdgialm max	2500 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1999 Philips 0-D

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS 0-D
Section 1 · Cathode Ray

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 capacitance	6 pF	—
Cathode capacitance	4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final accelerator operating voltage	18000 V	—
Final accelerator minimum voltage	13000 V	—
Final accelerator maximum voltage	18000 V	—
Maximum grid No.4 voltage	1000 V	—
Maximum negative grid No.4 voltage	500 V	—
Maximum negative grid No.1 voltage	150 V	—
Heater-cathode AC component maximum	20 V RMS	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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