

ELECTRONIC TUBE REFERENCE

A4727W2

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

47 cm monochrome television picture tube with electrostatic focusing, magnetic deflection, approximately 110-degree scanning, and high-voltage direct-view operation around 18-20 kV.

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
No fixed ratings recorded.
CRT section. Maximum ratings, operating conditions, capacitances, optical and mechanical values are preserved as parameters where published.

47 cm rectangular picture tube with 110° 2. Typical Operating Conditions deflection angle, electrostatic focusing, aluminized screen and steel reinforcement

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
A 47	-27 W	—
Published value	47 cm	—
Ur @	63 V	—
I i 03+	6 %	—
Ug3as	5 a	—
Ug3as5a (2)	20 kV	—
Ugr 400	500 V	—
Ugg @ 0...400	0-400 V	—
¢ VA g3gga (-Ugt) cutott@40 ... 77	50-93 V	—
Ukcutott@ 36... 66	45-79 V	—
Ugagsa max &	20 kV	—
Ugflgfia min	13 kV	—
Rg3g	5 a	—
U94 max	1000 V	—
UgA_ p max	2500 V	—
(-Ug4) max	500 V	—
L_!g_Q_mag	550 V	—
1. Generalities Ug2 min	350 V	—
HQ?_mI-_n	470 ohm	—
Bulb All-Glass Type Ugl P max	2 V	—
Base ~ German Standard {(- Ug1) max	150 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
R51 min gi]	150 ohm	—
Pim max	10 mW/cm	—
Horizontal 99 U-Fj'lk max 1 @ @	410 V	—
U - 'k max 2 @ @	200 V	—
Neck Diameter	28.6 mm	—
Neck Diameter 28,6 mm U_ ik p max (2)	300 V	—
U+l."kpmux	180 V	—
(Light Transmission Rilic max @	1 MQ	—
Published value	0.1 MQ	—

CIRCUITDESIGNRATINGS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Fluorescence Colour White = .. g2 . <+	5 uA	—
Colour Temperature 12	0 °K	—
Colour Temperature 12 000 °K {approx.) loa < + (2)	25 uA	—
Minimum Useful 384 x	305 mm	—
Minimum Useful 384 x 305 mm Rulen' > (2)	2 MQ	—
Dimensions Diagonal	446 mm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Overall Length 302,5 +	6.5 mm	—
Weight	8 kg	—
Weight 8 kg (approx.) Cq] __] approx. (2)	6 pF	—
Ck. approx.	5 pF	—
Implosion protection by steel reinforcement. Cg3g	5 a	—
Implosion protection by steel reinforcement. Cg3g5a/m max (2)	1500 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Admitted by Association of German Elec- CadgSa/m min	1000 pF	—
trical Engineers, VDE. Cg3g5al/m' approx.	350 pF	—
A	4727 W	—

TUBE TINKER

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