



ELECTRONIC TUBE REFERENCE

A56120X

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Large 55-56 cm-class monochrome television picture tube for high-voltage direct viewing, with manufacturer-defined magnetic deflection, focusing, and screen characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray

No fixed ratings recorded.

CRT section. Maximum ratings, operating conditions, capacitances, optical and mechanical values are preserved as parameters where published.

The Mullard A56120X is a 56 cm rectangular shadow-mask colour television CRT with three electron guns and metal-backed three-colour phosphor-dot screen



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	300 mA	—
UsefulScreenDiagonalMinimum	533 mm	—
UsefulScreenWidthMinimum	447 mm	—
UsefulScreenHeightMinimum	337 mm	—
DeflectionMethod	Magnetic	—
Deflection Angle	90 degree	—
ElectronBeamCount	3	—
ScreenConstruction	Shadow-mask three-color phosphor dots	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	900 mA	—
Focusing Method	Electrostatic text	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection Method	Magnetic text	—
Deflection Angle	92 deg	—
Light Transmission	53 percent	Approximate
Grid Cutoff Voltage Range	-65 to -135 V	EachGun; Va1=300V
Light Output at Screen Centre	120 cd/m2	FocusedRaster
White Point x	0.281 ratio	—
White Point y	0.311 ratio	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final Anode Voltage	25000 V	EachGun
Focus Electrode Voltage Minimum	4200 V	EachGun
Focus Electrode Voltage Maximum	5000 V	EachGun



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
tion angle and	36.5 mm	—
The useful screen area of	1465 cm	—
has nearly straight sides of 44 x	35 cm	—
(appr.) with 3 x4 aspect ratio. The filter- Minimum Useful Diagonal	533 mm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
glass of the faceplate has a light transmis- Screen Dimensions Horizontal	447 mm	—
sion of 52% (appr.). Vertical	337 mm	—
trianguiar dot groups - colour triplets - Area (approx.)	1485 cm	—
Neck Diameter	36.5 mm	—
phosphor is composed of yitrium com- 472 +	35 mm	—
The tube uses three electrostatically focus- Weight	15 kg	—
Cgdg5alm min	1700 pF	—
Ugdgsa max @ i	27.5 kV	—
Ugdgsa max @ i 27,5kV CgdgSalm' (approx.) (2)	280 pF	—
Ugagsa min	20 kv	—
!§	4 ohm	—
Ugz 5 max	1 kV	—
' :_Ugl) P max	400 V	—
(=Ugl) max	200 V	—
U-Hk max 1 @@	410 A	—
Ul max2@@@	250 V	—
nearest centre of screen	0.64 mm	—
Uik B max @	180 V	—
U+ffl<_max @	135 V	—

CIRCUITDESIGNRATINGS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ur @	63 V	—
B (@approx.)	9 A	—
=	150 V	—
=%	5 uA	—
<+	5 uA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uadg	5 a	—
Uadg5a B r (2)	25 kV	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ug2 ot @ ®	210–495 V	—
at (_Uy)	105 V	—
(_Ugfl} cutaff '@	70–140 V	—
Cx - (approx.)	5 pF	—
at -Ugz =	300 V	—
at -Ugz = 300V Cg3 (approx.) (2)	6.5 pF	—
CgdaSa/m max	2300 pF	—

TUBE TINKER

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