



ELECTRONIC TUBE REFERENCE

A67510X

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Large rectangular color television picture tube using multiple electron beams and a shadow-mask tricolor phosphor-dot screen. Its magnetic deflection and high-voltage direct-view construction are designed specifically for color receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 30 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.
Applicable promoted fields mapped semantically from the printed ratings; device-specific electrical limits and operating conditions are preserved densely in TUBE_SECTION_PARAMETER.

ITT-Picture Tube AB7-150X (AB7-510X) isa 1. Mechanical Data rectangular colour picture tube with 110° Bulb All-Glass Type with deflection angle and 29 mm neck diameter. The useful screen area of 2100 cm² (appr.) mission of 49,5% (appr.). Screen Dimensions Horizontal 528 mm The phosphor screen is composed of tri- Vertical 396 mm



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	30 mA	—
Anode Voltage	25000 V	—
Maximum Anode Voltage	27500 V	—
Screen Area	2100 cm ²	—
Screen Aspect Ratio	1.3333 ratio	—
Deflection Angle	110 degree	—



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
g[.	95 a	—
deflection angle and	29 mm	—
The useful screen area of	2100 cm	—
has nearly straight sides of 53 x	40 cm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
glass of the faceplate has a light trans- Minimum Useful Diagonal	626 mm	—
mission of 49,5% (appr.). Screen Dimensions Horizontal	528 mm	—
The phosphor screen is composed of tri- Vertical	396 mm	—
Published value	2100 cm	—
Neck Diametet	29 mm	—
Overalllength ~ 432 X	6 mm	—
Weight	20 kg	—
U@ a0	63 V	—
Iy ABT-150X ~(approx.)	780 mA	—
Iy ABT-510 X " (approx.)	730 mA	—
Iy ABT-510 X " (approx.) 0,730 A Is1 (-Ug1 = (2)	150 V	—
Published value	25 kV	—
3. Maximum Ratings & Cgdgha/m' approx.	450 pF	—
Ugdgia max &	27.5 kV	—
Ugat_gfia_mm	20 kV	—
Ig4g	5 a	—
Ig4g5a max (2)	1 mA	—
Ugs max ~	60 kV	—
Ug2 5 max L T	0 %	—
t' _Ug\)' max .	200 V	—
Utk wmx 1@®	450 V	—
Utk wmx 1@® 450 V nearest centre of screen (2)	0.66 mm	—
Hittip way A0 L 0	200 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value	42–50 kV	—
Ug?_ cutoff @ @ 150 .	445 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
at (-U _g) =	105 V	—
at (-U _g) = 105V Sl i & - - approx. (2)	6.3 pF	—
(-U _{QI}) cutoff @	76–162 V	—
(-U _{QI}) cutoff @ 76...162V (2)	2.6 pF	—
C _{gdgSa/m} max o	2500 pF	—
C _{gdg5aim} min = 1]	2000 pF	—