



ELECTRONIC TUBE REFERENCE

A66410X

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 / 730 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.

ITT-Picture Tube A 66—140X (A 686—410 X) 1. Generalities is a rectangular colour picture tube with Bulb All-Glass Type with 110° deflection angle and 36,5 mm neck dia- Convex Rectangular meter. The useful screen area of 2030 cm² Faceplate mission of 52% (appr.). Screen Dimensions Harizontal 518 mm The phosphor screen is composed of tri- Vertical 390 mm

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
110° deflection angle and	36.5 mm	—
meter. The useful screen area of	2030 cm	—
terglass of the faceplate has a light trans- Minimum Useful Diagonal	618 mm	—
mission of 52% (appr.). Screen Dimensions Harizontal	518 mm	—
The phosphor screen is composed of tri- Vertical	390 mm	—
consisting of a red-, green- and blue- Area (approx.)	2030 cm	—
phor is composed of yttrium compounds Neck Diameter	36.5 mm	—
2ight	20 kg	—
Heating Time @	5 s	—
3. Maximum Ratings Codgbalm min	2000 pF	—
CadgSalm ' approx.	500 pF	—
UgdgSa max_@ 27r	5 kV	—
Ug4g\$ a min	20 kV	—
Igdgfia max @	110 mA	—
Ug_z_p max - - 1'	0 kV	—
(-=Ua1) o max	400 V	—
Uik max1@ @ A	0 V	—
U-trc max2 @@	250 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U-trc max2 @@ 250V nearest centre of screen (2)	0.81 mm	—
U-tticp max. ®	300 V	—
Usittkn mex @ _1	180 V	—
Uik max @	135 V	—

CIRCUITDESIGNRATINGS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
0@]	63 V	—
0@] 63V lga S f (2)	150 A	—
s AB6-410 X ~ (approx.)	730 mA	—
s AB6-410 X ~ (approx.) 0,730 A lo1 (=Ug1 = (2)	150 V	—
Ugtgsa E	25 kV	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uss	42–50 kV	—
at (~Up)=	10 v	—
Published value	210–495 V	—
Cal approx.	7 pF	—
Cxk B approx.	5 pF	—
(-Ug1) cutoti @	70–140 V	—
(-Ug1) cutoti @ 70...140V Cg3 . approx. (2)	7 pF	—
at -Ugz =	300 V	—
Cgdgha/m max =	2500 pF	—

TUBE TINKER

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