

ELECTRONIC TUBE REFERENCE

7AXP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
4 SECTIONS
CONSTRUCTION
CATHODERAY

Seven-inch P1 cathode-ray instrument tube for oscillographic or measurement display, with manufacturer-specified focusing, deflection, accelerating-voltage, and phosphor characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 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.
Representative row for identical electron-gun sections.

The ETC 7AXP1 is a seven-inch diagonal square-face four-beam electrostatic-focus and deflection cathode-ray tube with independently controllable beams and separately brought-out acceleration and deflection connections.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Electronic Tube Corp

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

1961 ELECTRONIC TUBE CORP

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current nominal	600 mA	—
Maximum post-accelerator voltage	10500 V	—
Maximum accelerator voltage	3500 V	—
Maximum focusing voltage	1750 V	—
Maximum accelerator-to-deflection-electrode voltage	750 V	—
Maximum negative grid-1 bias magnitude	200 V	—
Maximum positive grid-1 bias	0 V	—
Maximum heater-to-cathode voltage magnitude	180 V	—
Typical post-accelerator voltage	4000 V	—
Typical accelerator voltage	2000 V	—
Typical focusing voltage	470–670 V	—
Typical grid-1 voltage	-76--52 V	—
Post-accelerator to accelerator ratio maximum	3	—
Modulation factor maximum	55 V	—
Deflection factor D1-D2 minimum	56 V/in	—
Deflection factor D1-D2 maximum	58 V/in	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor D3-D4 minimum	48 V/in	—
Deflection factor D3-D4 maximum	59 V/in	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflecting method	Electrostatic	—
Electron gun / beam count	4	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor options	P1,P2,P7,P11	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes	5.6 pF	—
Grid 1 to all other electrodes	5.8 pF	—
D1 to D2	2.5 pF	—
D3 to D4	2.8 pF	—