

Seven-inch diagonal square-face five-beam CRT with electrostatic focusing and deflection. Each independently controlled beam scans a separate screen area, enabling simultaneous multi-channel instrument or waveform presentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 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 7BJP1 is a seven-inch diagonal square-face five-beam electrostatic-focus and deflection cathode-ray tube. Each beam is independently controllable and scans a separate screen area.

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	300 mA	—
Maximum post-accelerator voltage	7700 V	—
Maximum accelerator voltage	3850 V	—
Maximum focusing voltage	1650 V	—
Maximum accelerator-to-deflection-electrode voltage	1250 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	450–650 V	—
Typical grid-1 voltage	-90--50 V	—
Post-accelerator to accelerator ratio maximum	2	—
Modulation factor	55 V	—
Line width	0.65 mm	—
Deflection factor D1-D2 minimum	68 V/in	—
Deflection factor D1-D2 maximum	84 V/in	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor D3-D4 minimum	27 V/in	—
Deflection factor D3-D4 maximum	37 V/in	—
Interaction factor maximum	0.00001 in/V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflecting method	Electrostatic	—
Electron gun / beam count	5	—

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes	4.9–6.5 pF	—
Grid 1 to all other electrodes	4.8–7 pF	—
D1 to D2	2.7 pF	—
D3 to D4	3.2 pF	—

TUBE TINKER

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