

ELECTRONIC TUBE REFERENCE

5DNP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch P1 cathode-ray instrument tube for oscillograph or measurement display, with manufacturer-specified focusing, deflection, accelerating voltages, and phosphor characteristics for precision waveform presentation.

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.
Cathode-ray electron-gun section; CRT-specific ratings are retained in TUBE_SECTION_PARAMETER because fixed plate/screen fields are not semantically equivalent.

The ETC 5DNP1 is a five-inch flat-face single-gun electrostatic-focus and deflection cathode-ray tube with post-acceleration, intended for high-voltage operation with high brightness and small spot size.

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	16000 V	—
Maximum accelerator voltage	8000 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	10000 V	—
Typical accelerator voltage	5000 V	—
Typical focusing voltage	1250–1550 V	—
Typical grid-1 voltage	-87--53 V	—
Modulation factor maximum	18 V	—
Post-accelerator to accelerator ratio maximum	2	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflecting method	Electrostatic	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electron gun / beam count	1	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor options	P1,P2,P7,P11,P19	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to all other electrodes	7.9 pF	—
Cathode to all other electrodes	5.8 pF	—
D1 to D2	3.1 pF	—
D3 to D4	1.3 pF	—

TUBE TINKER

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and their source documents.

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