



ELECTRONIC TUBE REFERENCE

5BTP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch direct-view oscilloscope CRT with flat clear faceplate, electrostatic focusing and deflection, post-deflection acceleration, high deflection sensitivity, and a P1 phosphor screen.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	4400 V
Cathode-ray electron-gun/display section.	

Five-inch direct-view oscilloscope CRT with flat clear faceplate, electrostatic focus/deflection, post-deflection acceleration, and high deflection sensitivity.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	Nominal
Heater Current	600 mA	Nominal



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes capacitance	5 pF	—
Grid No. 1 to all other electrodes capacitance	8 pF	—
Deflection plates D1-D2 capacitance	2 pF	—
Deflection plates D3-D4 capacitance	3 pF	—
D1 to all other electrodes capacitance	10.5 pF	—
D2 to all other electrodes capacitance	8.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D3 to all other electrodes capacitance	8.5 pF	—
D4 to all other electrodes capacitance	9.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode No. 2 input	6 W	—
Maximum anode No. 3 voltage	4400 V	—
Maximum anode No. 2 voltage	2700 V	—
Maximum anode No. 1 focus voltage	1100 V	—
Maximum negative grid No. 1 bias magnitude	140 V	—
Peak heater-cathode voltage during warm-up	450 V	—
Peak heater-cathode voltage after warm-up	140 V	—
Peak voltage between anode No. 2 and any deflection plate	600 V	—
Deflection factor D1-D2	81–109 V/in	—
Deflection factor D3-D4	43–58 V/in	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum undeflected spot-position square	15 mm	—
Useful scan D3-D4	4 in	—

CIRCUITVALUE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 circuit resistance	1.5 MOhm	—
Deflection circuit resistance	1.5 MOhm	—