ELECTRONIC TUBE REFERENCE

5BTP7

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 P7 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

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	4400 V

CRT highest published anode/accelerating voltage is promoted to MaxPlateVoltage; additional electrode, deflection, optical, and capacitance data are retained as parameters.

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

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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**	—
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**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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**	—