



ELECTRONIC TUBE REFERENCE

5ADP7A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch electrostatically focused and deflected P7 cathode-ray instrument tube with post-deflection acceleration, a 6.3 V heater, and precision deflection characteristics for waveform display.

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

SECTION 1 Cathode Ray*No fixed ratings recorded.**CRT electron-gun/display section.*

The Sylvania 5ADP7A is a 5-inch electrostatic-focus/electrostatic-deflection CRT with a blue-white screen, aluminized construction.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	Nominal; ±10%
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Fluorescence	Blue-White text	—
Persistence	Long text	—
Cathode-to-All Capacitance Minimum	3.1 pF	—
Cathode-to-All Capacitance Maximum	5.8 pF	—
Grid1-to-All Capacitance Minimum	4.2 pF	—
Grid1-to-All Capacitance Maximum	7.9 pF	—
Phosphorescence	Yellow text	—
Screen Aluminized	Yes text	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode3 Voltage	6600 V	—
Minimum Anode3 Voltage	2500 V	5ADP-A family
Maximum Anode2 Voltage	2860 V	—
Maximum Anode1 Voltage	1100 V	—
Maximum Grid1 Negative Bias	200 V	—
Maximum Grid1 Positive Peak	2 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater-Cathode Voltage	180 V	EitherPolarity
Maximum Anode2-to-Deflection-Plate Voltage	550 V	—
Typical Anode3 Voltage	3000 V	—
Typical Anode2 Voltage	1500 V	—
Focus Voltage Minimum	300 V	Anode1
Focus Voltage Maximum	515 V	Anode1
Grid1 Cutoff Voltage Minimum	-56 V	—
Grid1 Cutoff Voltage Maximum	-34 V	—
Deflection Factor Plates 1-2 Minimum	40 V/in	—
Deflection Factor Plates 1-2 Maximum	50 V/in	—
Deflection Factor Plates 3-4 Minimum	30.5 V/in	—
Deflection Factor Plates 3-4 Maximum	37.5 V/in	—
Maximum Modulation Voltage	45 V	—
Maximum Line Width	0.03 in	—
Maximum Grid1 Circuit Resistance	1.5 Mohm	—
Maximum Deflection Plate Circuit Resistance	5 Mohm	—

TUBE TINKER

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