ELECTRONIC TUBE REFERENCE

5ADP31A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch electrostatically focused and deflected P31 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

SECTION1 Cathode Ray

No fixed ratings recorded.

CRT electron-gun/display section.

The Sylvania 5ADP31A is a 5-inch electrostatic-focus/electrostatic-deflection CRT with a green 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	**Green text**	—
Persistence	**Medium 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**	—
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

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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