

ELECTRONIC TUBE REFERENCE

5CVP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Compact rectangular airborne indicator CRT with electrostatic focusing, 54-degree magnetic deflection, and a green screen. Designed for aircraft instrumentation, it provides a rugged direct-view indication in airborne equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	4500 V
Cathode-ray electron-gun/display section.	

The Sylvania 5CVP1 is a compact rectangular airborne indicator CRT with electrostatic focus, 54-degree magnetic deflection, and a green screen.



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	300 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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	Nominal; $\pm 10\%$
Focusing Method	Electrostatic text	—
Deflection Method	Magnetic text	—
Horizontal Deflection Angle	52 deg	—
Vertical Deflection Angle	27 deg	—
Diagonal Deflection Angle	54 deg	—
Fluorescence	Green text	—
Persistence	Medium text	—
Grid1-to-All Capacitance	12 pF	Approximate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-All Capacitance	9.5 pF	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	4500 V	—
Maximum Anode Input	6 W	—
Focus Electrode Voltage Minimum	-500 V	Grid4
Focus Electrode Voltage Maximum	1100 V	Grid4
Maximum Grid2 Voltage	550 V	—
Maximum Grid1 Negative Bias	165 V	—
Maximum Grid1 Positive Peak	2 V	—
Maximum Heater-Cathode Voltage	180 V	EitherPolarity
Maximum Altitude	70000 ft	—
Operating Temperature Minimum	-55 degC	—
Operating Temperature Maximum	85 degC	—
Anode Voltage	4000 V	—
Focus Voltage Minimum	0 V	Grid4
Focus Voltage Maximum	120 V	Grid4
Grid2 Voltage	300 V	—
Grid1 Cutoff Voltage Minimum	-45 V	—
Grid1 Cutoff Voltage Maximum	-15 V	—
Maximum Modulation Voltage	15 V	—
Maximum Line Width	0.006 in	BeamCurrent=10uA

TUBE TINKER

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