

ELECTRONIC TUBE REFERENCE

4VP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Three-and-a-half-inch square direct-view instrument CRT with electrostatic focusing and deflection, post-deflection acceleration, and a blue-white P7 display providing persistent trace visibility.

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.
Published source values promoted where applicable.

The Sylvania 4VP7 is a 3.5-inch square direct-view CRT with electrostatic focus and deflection, post-deflection acceleration, and a blue-white display.



SOURCE OPERATING CONDITIONS

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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Electrostatic	—



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
Focusing method	1 code	Electrostatic
Deflection method	1 code	Electrostatic
Deflection factors	1 code	Published on source sheet; OCR did not preserve numeric columns reliably
Useful screen / scan	1 code	approximately 3.5-inch square direct-view screen
Phosphor designation	1 code	P7
Light output P1	25 ft-lambert	AtIb3=25uA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage maximum	2750 V	—
Post-accelerator / Anode No. 3 voltage maximum	5500 V	—
Anode No. 2 / accelerator voltage	2000 V	—
Post-accelerator / Anode No. 3 voltage	4000 V	—
Focusing electrode voltage maximum	1100 V	—
Focusing electrode voltage minimum	200 V	—
Focusing electrode voltage maximum	500 V	—
Grid No. 1 cutoff voltage minimum	-135 V	—
Grid No. 1 cutoff voltage maximum	-58 V	—
Peak heater-to-cathode voltage	180 V	—
Peak voltage between accelerator and any deflection plate	600 V	—
Grid No. 1 negative bias maximum	200 V	—
Anode No. 2 input maximum	6 W	—
Post-accelerator to accelerator voltage ratio	2 ratio	—