



ELECTRONIC TUBE REFERENCE

6DP11

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Six-inch oscilloscope CRT with electrostatic focusing and deflection, post-deflection acceleration, and a P11 phosphor screen. Sylvania documentation gives high-voltage operation to approximately 15 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	25
NOMINAL HEATER	6.3 V / 1.74 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	15000 V
<i>Representative electron-gun section; three independent substantially identical guns are compressed to one section row.</i>	

Six-inch electrostatically focused/deflected oscilloscope CRT with post-deflection acceleration and P11 phosphor.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	1.5 A–1.98 A	All sections
Useful Scan	4 in	D1-D2 and D3-D4
Screen Fluorescence	Blue	—
Persistence	Short	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode No. 2 Voltage	4500 V	—
Typical Anode No. 3 Voltage	12000 V	—



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	Electrostatic	—
Deflection method	Electrostatic	—
Post-deflection acceleration	Present	—
Fluorescence	Blue	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	Short	—
Heater voltage	6.3 V	—
Heater current range	1.50 to 1.98 A	—
Deflection-factor uniformity maximum	5 %	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P11	—
Useful screen diameter minimum	5-3/16 in	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode-3 voltage	12000 V	—
Typical anode-2 voltage	4000 V	—
Focus voltage range	950 to 1225 V	—
Grid1 circuit resistance maximum	1.5 Mohm	—
Deflection-circuit resistance maximum	1 Mohm	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscilloscope / laboratory instrument display	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker