ELECTRONIC TUBE REFERENCE

6DP25

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 P25 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

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	15000 V

Representative electron-gun section; three independent substantially identical guns are compressed to one section row.

Six-inch electrostatically focused/deflected oscilloscope CRT with post-deflection acceleration and P25 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	**Orange**	—
Persistence	**Very long**	—

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

SOURCE DATA APPENDIX

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	**Orange**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	**Medium**	—
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	**P25**	—
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**	—