

ELECTRONIC TUBE REFERENCE

8FP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Eight-inch P4 cathode-ray display tube for high-voltage direct visual service, using magnetic deflection and manufacturer-specified focusing, grid-control, and accelerating-voltage characteristics.

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 maximum ratings and characteristics promoted semantically from the approved source.

The Sylvania 8FP4 is a 8-inch P4 television picture tube with magnetic focus/deflection and ion trap.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P4	—
Focusing Method	Magnetic	—
Deflecting Method	Magnetic	—



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	—
Focusing Method	Magnetic text	—
Deflection Method	Magnetic text	—
Deflection Angle	70 deg	Approximate
Phosphor	P4 text	—
Fluorescence	White text	—
Persistence	Short to Medium text	—
Cathode-to-All Capacitance	5 pF	Approximate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1-to-All Capacitance	6 pF	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	19800 V	—
Maximum Grid2 Voltage	550 V	—
Maximum Grid1 Negative Bias	155 V	RepresentativePublishedLimit
Maximum Grid1 Positive Peak	2 V	—
Maximum Heater-Cathode Voltage During Warmup	450 V	Duration<=15s
Maximum Heater-Cathode Voltage After Warmup	200 V	—
Anode Voltage	16000 V	—
Grid2 Voltage	300 V	—
Grid1 Cutoff Voltage Minimum	-72 V	—
Grid1 Cutoff Voltage Maximum	-35 V	—
Maximum Grid1 Circuit Resistance	1.5 Mohm	—
Focusing Coil Current	125 mA	Approximate; ±15%
Ion Trap Magnet Current	30 mA	Average
Minimum Ion Trap Field Strength	33 gauss	—

TUBE TINKER

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

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