

ELECTRONIC TUBE REFERENCE

8CP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Eight-inch P4 electrostatic cathode-ray tube for oscilloscope and special-purpose instrument display, with post-deflection acceleration, a 7.5-inch useful screen, and typical 4 kV final-anode operation.

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	
MAXIMUM PLATE VOLTAGE	10000 V
Published maximum ratings and characteristics promoted semantically from the approved source.	

Eight-inch electrostatically focused/deflected special-purpose CRT with post-deflection acceleration and P4 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
Phosphor	P4	—
Focusing Method	Electrostatic	—
Deflecting 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	Electrostatic	—
Deflection method	Electrostatic	—
Post-deflection acceleration	Present	—
Fluorescence	White	—
Persistence	Medium	—
Heater voltage	6.3 V	—
Heater current	600 mA	—
Deflection factor plates 1-2	58 to 81 V/in	—
Deflection factor plates 3-4	49 to 68 V/in	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P4	—
Useful screen diameter minimum	7.5 in	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode-3 voltage	4000 V	—
Typical anode-2 voltage	2000 V	—
Focus voltage range	540 to 800 V	—
Grid1 cutoff voltage range	-24 to -56 V	—
Grid1 negative-bias maximum	-220 V	—
Grid1 positive-bias maximum	0 V	—
Grid1 positive peak maximum	2 V	—
Heater-cathode voltage maximum heater negative	140 V	—
Heater-cathode voltage maximum heater positive	140 V	—
Anode2-to-deflection-plate peak voltage maximum	550 V	—
Grid1 circuit resistance maximum	1.5 Mohm	—
Deflection-circuit resistance maximum	5 Mohm	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscilloscope / special-purpose instrument display	—

TUBE TINKER

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

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