ELECTRONIC TUBE REFERENCE

8CP2

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Eight-inch P2 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 P2 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	**P2**	—
Focusing Method	**Electrostatic**	—
Deflecting Method	**Electrostatic**	—

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	**Blue-green / green afterglow**	—
Persistence	**Long**	—
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	**P2**	—
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**	—