



ELECTRONIC TUBE REFERENCE

5AHP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch P7 cathode-ray display tube with electrostatic focusing and magnetic deflection, using an special-purpose screen for visual or instrument display.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	11000 V
<i>Cathode-ray display/scanning system; published focusing, deflection and high-voltage data retained as parameters.</i>	

5-inch radar cathode-ray tube with electrostatic focus, magnetic deflection, and long-persistence P7 screen.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

Section 1 · Cathode Ray

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscilloscope_Display text	—



SOURCE OPERATING CONDITIONS

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1960 Du Mont

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 DU MONT

Section 1 · Cathode Ray

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	1 code	Electrostatic
Deflection method	1 code	Magnetic
Minimum useful screen	100 in	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerator voltage maximum	10000 V	—
Accelerator voltage	7000 V	—
Grid No. 1 voltage	—	Published range -72 to -28 V
Grid No. 1 negative bias maximum	200 V	—

SOURCE OPERATING CONDITIONS

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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	Magnetic	—
Heater voltage	6.3 V	—
Heater current	600 mA	—
Fluorescence	Blue-white / yellow afterglow	—
Persistence	Long	—
Line width maximum	0.4 mm	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P7	—
Phosphor construction	Non-aluminized P7	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage maximum	11000 V	—
Focus-electrode voltage range maximum	-550 to +1100 V	—
Grid-2 voltage maximum	770 V	—
Grid-1 negative-bias maximum	-200 V	—
Grid-1 positive-bias maximum	0 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak heater-cathode voltage maximum	200 V	—
Typical anode voltage	7000 V	—
Typical focus voltage range	0 to +250 V	—
Typical grid-2 voltage	300 V	—
Grid cutoff range	-33 to -77 V	—
Grid-1 circuit resistance maximum	1.5 Mohm	—

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