



ELECTRONIC TUBE REFERENCE

5AMP7A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch P7 electrostatic cathode-ray tube for oscillograph and precision-instrument display, with manufacturer-defined accelerating, focusing, and deflection 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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	6600 V
<i>Published Sylvania CRT ratings, focus/deflection conditions, capacitances, cutoff/modulation values, and tolerance data retained where legible.</i>	

Five-inch special-purpose/instrument CRT with electrostatic focus, electrostatic deflection, and P7 phosphor (Blue-white / yellow afterglow, long persistence).

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	—
Heater voltage	6.3 V	—
Heater current	600 mA	—
Fluorescence	Blue-white / yellow afterglow	—
Persistence	Long	—
Deflection-factor uniformity maximum	1 %	—
Line width maximum	0.032 in	—
Useful scan minimum	4 x 2.5 in	—
Trace-angle tolerance	+/-0.8 deg	—
Pattern distortion at 100% useful scan maximum	2 %	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P7	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-2 voltage maximum	6600 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-1 focus voltage maximum	1650 V	—
Typical anode-2 voltage	2500 V	—
Typical focus voltage range	0 to 300 V	—
Grid-1 circuit resistance maximum	1.5 Mohm	—
Deflection-circuit resistance maximum	1 Mohm	—
Anode-2 input maximum	6 W	—

TUBE TINKER

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

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