



ELECTRONIC TUBE REFERENCE

5AQP1B

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch special-purpose instrument CRT with electrostatic focusing and deflection and a P1 green medium-persistence screen. Its direct-view electrostatic beam system is suited to oscillographic and precision measurement displays.

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	4400 V
Published Sylvania CRT ratings, focus/deflection conditions, capacitances, cutoff/modulation values, and tolerance data retained where legible.	

Five-inch special-purpose/instrument CRT with electrostatic focus, electrostatic deflection, and P1 phosphor (Green, medium 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	Green	—
Persistence	Medium	—
Deflection factor D1-D2	40 to 50 V/in	—
Deflection factor D3-D4	31.5 to 38.5 V/in	—
Modulation maximum	40 V	—
Line width maximum	0.03 in	—
Useful scan minimum	4 x 4 in	—
Pattern distortion at 100% useful scan maximum	1 %	—
P1 light output minimum	15 foot-lambert	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P1	—
Faceplate construction	Clear aluminized	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-2 voltage maximum	4400 V	—
Anode-1 focus voltage maximum	1650 V	—
Grid-1 negative-bias maximum	-220 V	—
Grid-1 positive-bias maximum	0 V	—
Peak heater-cathode voltage maximum heater negative	200 V	—
Peak heater-cathode voltage maximum heater positive	200 V	—
Peak anode-2 to deflection-plate voltage maximum	400 V	—
Typical anode-2 voltage	2500 V	—
Typical focus voltage range	0 to 300 V	—
Grid cutoff range	-34 to -56 V	—
Anode-2 current maximum	400 uA	—
Grid-1 circuit resistance maximum	1.5 Mohm	—
Deflection-circuit resistance maximum	1 Mohm	—

TUBE TINKER

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

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