ELECTRONIC TUBE REFERENCE

5AQP7A

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 P7 blue-white/yellow long-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 P7 phosphor (Blue-white / yellow afterglow, long persistence).

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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 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 %**	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	**P7**	—
Faceplate construction	**Clear**	—

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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