ELECTRONIC TUBE REFERENCE

5AQP11B

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 P11 blue short-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 P11 phosphor (Blue, short 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**	—
Persistence	**Short**	—
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	**P11**	—
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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