



ELECTRONIC TUBE REFERENCE

5AQP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch cathode-ray instrument display tube documented by manufacturer data for type 5AQP1, intended for waveform or measurement presentation with purpose-specific phosphor and beam-control characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
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
<i>CRT electron-gun/display section; CRT-specific ratings and operating data are stored as parameters.</i>	

5-inch electrostatic-focus and electrostatic-deflection cathode-ray tube with high sensitivity and precision deflection characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current . 6.3 Volts	6.3 V	Heater Current . 6.3 Volts
Minimum Anode No. 2 Voltage (SAQP-B Only) 4400 Volts dc	4400 V	Minimum Anode No. 2 Voltage (SAQP-B Only) 4400 Volts dc
Anode No. 1 Voltage 1500 Volts dc	1500 V	Anode No. 1 Voltage 1500 Volts dc
Grid No. 1 Voltage	1 V	Grid No. 1 Voltage
AnodeNo.2Voltage 2500 Volts dc	2500 V	AnodeNo.2Voltage 2500 Volts dc
Anode No. 1 Voltage for Focus 0 to 300 Volts dc	300 V	Anode No. 1 Voltage for Focus 0 to 300 Volts dc
Grid No. 1 Voltage Required for Cutoff® -34 to ~56 Volts dc	56 V	Grid No. 1 Voltage Required for Cutoff® -34 to ~56 Volts dc
- The product of Anode No. 2 voltage and average Anode No. 2 current should be limited to 6.0 watts.	6 W	- The product of Anode No. 2 voltage and average Anode No. 2 current should be limited to 6.0 watts.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode No. 2 Voltage?	2 V	Maximum Anode No. 2 Voltage?

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	Electrostatic
Deflection factor D1-D2	—	Published range 40 to 50 V/in
Deflection factor D3-D4	—	Published range 31.5 to 38.5 V/in
Minimum useful screen	41 in	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerator voltage maximum	4000 V	—
Accelerator voltage	2500 V	—
Grid No. 1 voltage	—	Published range -56 to -34 V
Grid No. 1 negative bias maximum	200 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes	2.7 pF	Approximate or first published bound
Grid No. 1 to all other electrodes	37 pF	Approximate or first published bound



1965 Sylvania Electronic Tubes Vol3

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

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	2 %	—
P1 light output minimum	15 foot-lambert	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P1	—
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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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

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and their source documents.

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