

ELECTRONIC TUBE REFERENCE

5BHP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch direct-view oscilloscope CRT with electrostatic focusing and deflection and a P1 green medium-persistence screen. Its high-voltage beam system supports bright, precise waveform presentation in instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	14AG	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	13200 V
Cathode-ray electron-gun/display section.	

Sylvania 5-inch cathode-ray tube with electrostatic focus, electrostatic deflection, and P1 green, medium persistence. Published electrical ratings, capacitances, and operating conditions were extracted from the supplied datasheet.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	Nominal
Heater Current	600 mA	Nominal



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Electrostatic	—
Phosphor	P1 green, medium persistence	—
MinimumUsefulScreen	4.5 in	—
Cathode To All Capacitance	4.6 pF	—
GridToAllCapacitance	6.4 pF	—
BetweenDeflectionPlates1_2Capacitance	1.9 pF	—
BetweenDeflectionPlates3_4Capacitance	1.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PostAcceleratorHelixResistance	200 to 600 Mohm	—
PatternDistortionMaximum	1.5 %	—
UndelectedSpotPositionMaximum	5 mm	—
UsefulScanD1D2	10 cm	—
UsefulScanD3D4	4 cm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FinalAnodeVoltageMaximum	13200 V	—
Anode2VoltageMaximum	2200 V	—
FocusElectrodeVoltageMaximum	880 V	—
FinalAnodeVoltage	10000 V	—
Anode2Voltage	1670 V	—
FocusElectrodeVoltageForFocus	180 to 590 V	—
GridVoltageForCutoff	-50 to -80 V	—
GridCircuitResistanceMaximum	1.5 Mohm	—
DeflectionFactorPlates1_2	70 to 85 V/in	—
DeflectionFactorPlates3_4	15 to 18.3 V/in	—
Anode2InputMaximum	6 W	—
IsolationShieldVoltageMaximum	2300 V	—
DeflectionPlateShieldVoltageMaximum	2300 V	—
Anode3ToAnode2VoltageRatioMaximum	6	—
PeakVoltageAnode2ToDeflectionPlate	550 V	—

TUBE TINKER

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

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