ELECTRONIC TUBE REFERENCE

5BHP15A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch oscilloscope CRT with electrostatic focusing and deflection and a P15 phosphor screen. The family uses a flat face and high-sensitivity electron optics for direct waveform and instrument display.

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	13200 V

Published CRT maximum ratings, capacitances, and typical operating conditions extracted from supplied Sylvania datasheet.

Sylvania 5-inch cathode-ray tube with electrostatic focus, electrostatic deflection, and P15 blue-green, extremely short persistence. Published electrical ratings, capacitances, and operating conditions were extracted from the supplied datasheet.

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	P15 blue-green, extremely short 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	—
PostAcceleratorHelixResistance	200 to 600 Mohm	—
PatternDistortionMaximum	1.5 %	—
UndeflectedSpotPositionMaximum	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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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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