



ELECTRONIC TUBE REFERENCE

5BCP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch magnetically focused and deflected cathode-ray display tube with a P1 green medium-persistence screen. Its magnetic scanning system and phosphor characteristics support specialized instrument and oscillographic display service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9HD	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	11400 V
<i>Cathode-ray electron-gun/display section.</i>	

Sylvania 5-inch cathode-ray tube with magnetic focus, magnetic 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	300 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	6.5 V	—
Heater Current	300 mA	—
FocusingMethod	Magnetic	—
DeflectionMethod	Magnetic	—
Phosphor	P1 green, medium persistence	—
MinimumUsefulScreen	4.25 in	—
Cathode To All Capacitance	3.7 pF	—
GridToAllCapacitance	3.5 pF	—
LineWidthMaximum	0.011 in	BeamCurrent=200uA
SpotPositionMaximum	0.25 in	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FinalAnodeVoltageMaximum	11000 V	—
FinalAnodeVoltage	8000 V	—
FocusCoilCurrentApproximate	56 to 84 mA	—
GridVoltageForCutoff	-25 to -75 V	—
GridCircuitResistanceMaximum	1.5 Mohm	—
AnodeInputMaximum	6 W	—
GridNegativeBiasMagnitudeMaximum	220 V	—