

ELECTRONIC TUBE REFERENCE

SC3502

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Sylvania special-purpose instrument CRT with electrostatic focusing and deflection and a P1 green screen. Its high-voltage ratings and beam-control characteristics suit precision oscillographic display.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.5 V / 140 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	3000 V
Special-purpose cathode-ray tube; published ratings and construction data captured.	

Sylvania SC3502 special-purpose CRT with electrostatic focus and electrostatic deflection; P1 green. Published high-voltage ratings, focus/deflection data, capacitances, circuit limits, and typical 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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Electrostatic	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Electrostatic charge printing	—



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	1.5 V	—
Heater Current	140 mA	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Electrostatic	—
PhosphorOrScreen	P1 green	—
UsefulScreenOrScan	2 inch	—
LineWidthMaximum	0.45 mm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LightOutputMinimum	3 ft-L	—
Grid1 To All Capacitance	4.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	3000 V	—
Grid1NegativeBiasMagnitudeMaximum	150 V	—
Grid1PositiveBiasMaximum	0 V	—
Grid1PositivePeakVoltageMaximum	2 V	—
Grid1CircuitResistanceMaximum	1.5 Mohm	—
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
AnodeInputMaximum	6 W	—
FocusingElectrodeVoltageMaximum	1200 V	—
AltitudeMaximum	35000 ft	—
Anode Voltage	2000 V	—
FocusElectrodeVoltage	400 to 700 V	—
Grid1VoltageForCutoff	-40 to -70 V	—
DeflectionFactorD1D2	102 to 138 V/in	—
DeflectionFactorD3D4	58 to 78 V/in	—