

ELECTRONIC TUBE REFERENCE

SC3511

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Special-purpose electrostatically focused and deflected instrument CRT offered with P1, P2, P7, or P11 screens. Its construction supports precision oscillographic display with selectable persistence characteristics.

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	6600 V
Special-purpose cathode-ray tube; published ratings and construction data captured.	

Sylvania SC3511 special-purpose CRT with electrostatic focus and electrostatic deflection; P1/P2/P7/P11 available. Published high-voltage ratings, focus/deflection data, capacitances, circuit limits, and typical operating conditions were extracted from the supplied datasheet.



SOURCE OPERATING CONDITIONS

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/P2/P7/P11 available	—
UsefulScreenOrScan	~2.5 inch	—
ModulationMaximum	30 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LineWidthMaximum	0.45 mm	—
DeflectionFactorUniformityMaximum	2 %	—
Grid1 To All Capacitance	8 pF	—
Cathode To All Capacitance	6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	6600 V	—
Grid1NegativeBiasMagnitudeMaximum	220 V	—
Grid1PositiveBiasMaximum	0 V	—
Grid1PositivePeakVoltageMaximum	2 V	—
Grid1CircuitResistanceMaximum	1.5 Mohm	—
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
PeakVoltageAnodeToDeflectionPlate	550 V	—
Anode3VoltageMaximum	6600 V	—
Anode2VoltageMaximum	2200 V	—
PostAcceleratorHelixResistanceMinimum	200 Mohm	—
PostAcceleratorHelixResistanceMaximum	600 Mohm	—
Anode Voltage	3000 V	—
FocusElectrodeVoltage	0 to 300 V	—
Grid1VoltageForCutoff	-30 to -50 V	—
DeflectionFactorD1D2	27 to 33 V/in	—
DeflectionFactorD3D4	23 to 29 V/in	—

TUBE TINKER

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

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