



ELECTRONIC TUBE REFERENCE

SC3892P1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-gun special-purpose instrument CRT with electrostatic focusing and deflection and a P1 green screen. Multiple guns permit simultaneous independent electronic traces or display elements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	5500 V
Ratings and characteristics promoted from the supplied Sylvania source where explicitly published.	

Sylvania SC3892P1 special-purpose CRT with electrostatic focus and electrostatic deflection; P1, five-gun design. 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	3 A	—
GunCount	5	—
MinimumUsefulScreenDiameter	15 in	—



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	3 A	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Electrostatic	—
PhosphorOrScreen	P1, five-gun design	—
UsefulScreenOrScan	15 inch	—
GunCount	5	—
DeflectionFactorUniformityMaximum	1.5 %	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
InteractionFactorMaximum	0.00006 in/V	—
UsefulScanD1D2	7.5 in	—
UsefulScanD3D4	7.375 in	—
InterelectrodeCapacitancesStatus	To Be Determined	EachGun

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	5500 V	—
Grid1NegativeBiasMagnitudeMaximum	220 V	—
Grid1PositiveBiasMaximum	0 V	—
Grid1PositivePeakVoltageMaximum	2 V	—
Grid1CircuitResistanceMaximum	1.5 Mohm	—
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
PeakVoltageAnodeToDeflectionPlate	550 V	—
Anode2VoltageMaximum	5500 V	—
AstigmatismElectrodeVoltageMaximum	5500 V	—
FocusElectrodeVoltageMaximum	3000 V	—
PeakVoltageAnodeToDeflectionPlate	1500 V	—
Anode Voltage	3000 V	—
FocusElectrodeVoltage	850 to 1500 V	—
Grid1VoltageForCutoff	-50 to -100 V	—
DeflectionFactorD1D2	80 V/in	—
DeflectionFactorD3D4	80 V/in	—
AstigmatismElectrodeVoltage	2900 to 3100 V	—
LineWidth	0.035 in	—

TUBE TINKER

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

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