



ELECTRONIC TUBE REFERENCE

SC3814

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Special-purpose electrostatically focused and deflected CRT with a P7 long-persistence screen, suitable for instrument displays requiring retained electronic traces.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	4000 V
<i>Special-purpose cathode-ray tube; published ratings and construction data captured.</i>	

Sylvania SC3814 special-purpose CRT with electrostatic focus and electrostatic deflection; P7. 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	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Multiple independent guns	Yes	—



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	1.8 A	—
FocusingMethod	Electrostatic	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DeflectionMethod	Electrostatic	—
PhosphorOrScreen	P7	—
UsefulScreenOrScan	9 x 2.5 inch scan	—
UsefulScanD1D2	9 in	—
UsefulScanD3D4	2.5 in	—
HorizontalTraceParallelismMaximum	0.55 degree	—
Grid1 To All Capacitance	8 pF	—
Cathode To All Capacitance	6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	4000 V	—
Grid1NegativeBiasMagnitudeMaximum	220 V	—
Grid1PositiveBiasMaximum	0 V	—
Grid1PositivePeakVoltageMaximum	2 V	—
Grid1CircuitResistanceMaximum	1.5 Mohm	—
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
Anode Voltage	4000 V	—
FocusElectrodeVoltage	900 to 1300 V	—
Grid1VoltageForCutoff	-70 to -120 V	—
DeflectionFactorD1D2	80 to 100 V/in	—
DeflectionFactorD3D4	38 to 52 V/in	—

TUBE TINKER

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

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