

ELECTRONIC TUBE REFERENCE

SC3042

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch flat-face high-resolution mono-accelerator CRT with electrostatic focusing and deflection. Sylvania documentation gives approximately 5 kV anode capability for precision instrument display.

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

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	5000 V
Published ratings and characteristics promoted semantically from the approved source.	

The Sylvania SC3042 is a 5-inch flat-face high-resolution mono-accelerator CRT with electrostatic focus and deflection.



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
Maximum Plate Voltage	5000 V	—
Typical Anode Voltage	3000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Electrostatic	—
Deflecting Method	Electrostatic	—



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Maximum Line Width	0.01 in	30VAboveSpotCutoff
Useful Scan Plates 1-2	4.5 in	Minimum

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful Scan Plates 3-4	4 in	Minimum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode2 Voltage	5000 V	—
Maximum Anode1 Voltage	3000 V	FocusElectrode
Maximum Grid1 Negative Bias	220 V	—
Maximum Grid1 Positive Peak	2 V	—
Maximum Anode2-to-Deflection-Plate Voltage	550 V	AbsoluteMagnitude
Maximum Heater-Cathode Voltage	200 V	EitherPolarity
Anode2 Voltage	3000 V	—
Grid1 Cutoff Voltage Minimum	-96 V	—
Grid1 Cutoff Voltage Maximum	-64 V	—
Focus Voltage Minimum	1000 V	Anode1
Focus Voltage Maximum	1600 V	Anode1
Deflection Factor Plates 1-2 Minimum	80 V/in	—
Deflection Factor Plates 1-2 Maximum	100 V/in	—
Deflection Factor Plates 3-4 Minimum	40 V/in	—
Deflection Factor Plates 3-4 Maximum	50 V/in	—