

ELECTRONIC TUBE REFERENCE

27ZP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-seven-inch 110-degree television CRT with electrostatic focusing, magnetic deflection, gray-filter faceplate, and aluminized P4 screen. Its wide-angle construction supports a shallow direct-view monochrome receiver.

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	16 V
MAXIMUM SCREEN VOLTAGE	550 V
Electrical section extracted from supplied datasheet.	

Twenty-seven-inch 110-degree television CRT with electrostatic focus, magnetic deflection, gray-filter faceplate, and aluminized P4 screen.

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
Heater Voltage 6.3 Volts	6.3 V	Heater Voltage 6.3 Volts
Minimum Anode Voltage 12,000 Volts dc	12 V	Minimum Anode Voltage 12,000 Volts dc
Grid No. 4 Voltage (Focusmg Electrode) .. -550 to +1100 Volts dc	1100 V	Grid No. 4 Voltage (Focusmg Electrode) .. -550 to +1100 Volts dc
Grid No. 2 Voltage 550 Volts dc	550 V	Grid No. 2 Voltage 550 Volts dc
Grid No. 1 Voltage	1 V	Grid No. 1 Voltage
Anode Voltage Lo o s e 18,000 Volts dc	18 V	Anode Voltage Lo o s e 18,000 Volts dc
Grid No. 4 Voltage for Focus o000 oL 0 to 400 Volts dc	400 V	Grid No. 4 Voltage for Focus o000 oL 0 to 400 Volts dc
Grid No.2Voltage o oo 300 Volts dc	300 V	Grid No.2Voltage o oo 300 Volts dc
Grid No. 1 Voltage Required for Cutoff® -35to -72 Volts dc	72 V	Grid No. 1 Voltage Required for Cutoff® -35to -72 Volts dc
3. Visual extinciion offocused raster. Extinction of stationary focused spor will require that these	5 V	3. Visual extinciion offocused raster. Extinction of stationary focused spor will require that these values be about 5 volts more negative.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
External Conductive Coating to Anode® . . 2500 uuf Max.	2500 pF	External Conductive Coating to Anode® . . 2500 uuf Max.
Maximum Anode Voltage 22,000 Volts dc	22 V	Maximum Anode Voltage 22,000 Volts dc
Maximum Heater Voltage 6.9 Volts	6.9 V	Maximum Heater Voltage 6.9 Volts
range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,0	16 V	range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Grid No. 2 voltage	550 V	Published maximum Grid No. 2 voltage
Maximum Anode voltage	22000 V	Maximum Anode voltage •... 22,000Volts
Grid No. 2 Voltage	550 V	Grid No. 2 Voltage 550Volts
After Equipment warm-up period	200 V	After Equipment warm-up period . 200 Volts SENECA FALLS, NEW YORK
Heater Positive with Respect to Cathode	200 V	Heater Positive with Respect to Cathode 200 Volts Pre 4red and R elected By The
Anode voltage	18000 V	Anode voltage 18,000 Volts
Grid No. 4 Voltage for Focus	400 V	Grid No. 4 Voltage for Focus 0 to 400 Volts
Grid No. 2 Voltage	300 V	Grid No. 2 Voltage 300 Volts

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	600 mA	Published heater current

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LightTransmittance (Approx.) •	70 %	LightTransmittance (Approx.) . . . •..... 70Percent
Heater voltage	6.3 V	Heater voltage 6.3Volts

CIRCUITVALUE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 Circuit Resistance	1.5 Mohm	Grid No. 1 Circuit Resistance 1.5 Megohms Max.

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker