



ELECTRONIC TUBE REFERENCE

5ZP24

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch flying-spot-scanner CRT with electrostatic focusing, magnetic deflection, and a P24 blue-green extremely-short-persistence screen. Its high-voltage anode system is rated to approximately 30 kV.

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	30000 V
Published ratings, characteristics, typical operating conditions, and capacitances extracted from supplied Sylvania source.	

Five-inch flying-spot-scanner CRT with electrostatic focus, magnetic deflection, and P24 blue-green, extremely short persistence.

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	600 mA	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Magnetic	—
Deflection Angle	40 degree	—
Phosphor	P24 blue-green, extremely short persistence	—
MinimumUsefulScreenDiameter	4.25 in	—
Cathode To All Capacitance	8 pF	—
Grid1 To All Capacitance	5 pF	—
ExternalNeckCoatingToAnodeCapacitanceMinimum	100 pF	—
ExternalNeckCoatingToAnodeCapacitanceMaximum	500 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode2VoltageMaximum	30000 V	—
Anode1VoltageMaximum	7700 V	—
Grid2VoltageMaximum	385 V	—
Grid1NegativeBiasMagnitudeMaximum	165 V	—
Grid1PositiveBiasMaximum	0 V	—
Grid1PositivePeakVoltageMaximum	2 V	—
HeaterCathodeVoltageMaximum	450 V	Warmup<=15s;HeaterNegative
HeaterCathodeVoltageMaximum	165 V	AfterWarmup;HeaterNegative
HeaterCathodeVoltageMaximum	165 V	HeaterPositive
Anode2Voltage	27000 V	—
Anode1VoltageForFocus	5550 to 7050 V	—
Grid2 Voltage	200 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1VoltageForCutoff	-42 to -98 V	—
Anode Current	15 uA	—
Anode1CurrentMaximum	25 uA	—
Grid2 Current	-15 to +15 uA	—
Grid1CircuitResistanceMaximum	1.5 Mohm	—

TUBE TINKER

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

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