



ELECTRONIC TUBE REFERENCE

7BP2A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Seven-inch CRT with magnetic focusing and deflection and a P2 blue-green/green long-persistence screen. Sylvania documentation provides electrical ratings, capacitances, and operating conditions for persistent instrument display.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
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	8800 V
<i>Magnetic radar-indicator CRT; explicit X-ray warning.</i>	

Sylvania seven-inch CRT with magnetic focus, magnetic deflection, and P2 blue-green/green, long persistence. Published electrical ratings, capacitances, and 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	600 mA	Nominal
Anode Voltage	7000 V	RadarIndicator



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	6.5 V	—
Heater Current	600 mA	—
FocusingMethod	Magnetic	—
DeflectionMethod	Magnetic	—
Deflection Angle	53 degree	—
Phosphor	P2 blue-green/green, long persistence	—
MinimumUsefulScreen	6 in	—
Cathode To All Capacitance	5 pF	—
Grid1 To All Capacitance	8.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid2 To All Capacitance	7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1CircuitResistanceMaximum	1.5 Mohm	—
AnodeVoltageMaximum	8800 V	—
Grid2VoltageMaximum	770 V	—
Grid1NegativeBiasMagnitudeMaximum	200 V	—
HeaterCathodeVoltageMaximum	140 V	—
Anode Voltage	4000 V	LowVoltage
Anode Voltage	7000 V	HighVoltage
Grid2 Voltage	250 V	—
Grid1VoltageForCutoff	-25 to -70 V	—
FocusCoilCurrent	75 mA	Anode=4000V;Minimum
FocusCoilCurrent	102 mA	Anode=4000V;Maximum
FocusCoilCurrent	99 mA	Anode=7000V;Minimum
FocusCoilCurrent	135 mA	Anode=7000V;Maximum
AnodeInputPowerMaximum	6 W	—

TUBE TINKER

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and their source documents.

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