



ELECTRONIC TUBE REFERENCE

7AUP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Seven-inch P7 cathode-ray instrument tube for oscillographic or measurement display, with manufacturer-specified focusing, deflection, accelerating-voltage, and phosphor characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 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	11000 V
<i>Published Sylvania CRT voltage ratings, capacitances, focusing/deflection, and typical operating conditions extracted.</i>	

Sylvania seven-inch CRT with electrostatic focus, magnetic deflection, and Aluminized P7 white/yellow-green, long persistence. Published electrical ratings, capacitances, and operating conditions were extracted from the supplied datasheet.

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	300 mA	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Magnetic	—
Deflection Angle	70 degree	—
Phosphor	Aluminized P7 white/yellow-green, long persistence	—
MinimumUsefulScreen	6 in	—
Cathode To All Capacitance	7 pF	—
Grid1 To All Capacitance	9 pF	—
Grid2 To All Capacitance	7 pF	—
LineWidth	0.012 in	BeamCurrent=50uA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1CircuitResistanceMaximum	1.5 Mohm	—
AnodeVoltageMaximum	11000 V	—
Grid4FocusVoltageMaximum	1100 V	—
Grid2VoltageMaximum	770 V	—
HeaterCathodeVoltageMaximum	450 V	Warmup<=15s;HeaterNegative
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
Anode Voltage	8000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid4VoltageForFocus	0 to 300 V	—
Grid2 Voltage	300 V	—
Grid1VoltageForCutoff	-25 to -50 V	—
Grid2CircuitResistanceMaximum	10000 ohm	—
Grid4CircuitResistanceMaximum	10000 ohm	—

TUBE TINKER

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

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