ELECTRONIC TUBE REFERENCE

7ABP14A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Seven-inch radar-display CRT with electrostatic focusing, magnetic deflection, and a P14 blue-white/yellow-green long-persistence screen for persistent echo presentation.

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	11000 V

Published Sylvania CRT voltage ratings, capacitances, focusing/deflection, and typical operating conditions extracted.

Sylvania seven-inch CRT with electrostatic focus, magnetic deflection, and P14 blue-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	**600 mA**	—
FocusingMethod	**Electrostatic**	—
DeflectionMethod	**Magnetic**	—
Deflection Angle	**39 degree**	—
Phosphor	**P14 blue-white/yellow-green, long persistence**	—
MinimumUsefulScreen	**6 in**	—
Cathode To All Capacitance	**5 pF**	—
Grid1 To All Capacitance	**6 pF**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1CircuitResistanceMaximum	**1.5 Mohm**	—
AnodeVoltageMaximum	**11000 V**	—
FocusElectrodeVoltageMinimum	**-550 V**	—
FocusElectrodeVoltageMaximum	**1100 V**	—
Grid2VoltageMaximum	**770 V**	—
Grid1NegativeBiasMagnitudeMaximum	**200 V**	—
HeaterCathodeVoltageMaximum	**200 V**	—
Anode Voltage	**7000 V**	—
FocusElectrodeVoltage	**0 to 250 V**	—
Grid2 Voltage	**300 V**	—
Grid1VoltageForCutoff	**-28 to -72 V**	—

Tube Tinker

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

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