ELECTRONIC TUBE REFERENCE

7AYP14

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Seven-inch P14 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 / 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	16000 V

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

Sylvania seven-inch CRT with electrostatic focus, electrostatic 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

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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	Electrostatic	—
Phosphor	P14 blue-white/yellow-green, long persistence	—
MinimumUsefulScreen	4.75 x 5.75 in	—
DeflectionFactorUniformityMaximum	3 %	—
LineWidthMaximum	0.3 mm	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1CircuitResistanceMaximum	1.5 Mohm	—
PostAcceleratorVoltageMaximum	16000 V	—
AnodeVoltageMaximum	8000 V	—
PostAcceleratorToAnodeVoltageRatioMaximum	2	—
FocusElectrodeVoltageMaximum	2500 V	—
Grid1NegativeBiasMagnitudeMaximum	200 V	—
HeaterCathodeVoltageMaximum	180 V	—
PeakVoltageAnodeToDeflectionPlate	1500 V	—
PostAcceleratorVoltage	10000 V	—
Anode Voltage	5000 V	—
FocusElectrodeVoltage	1375 to 1875 V	—
Grid1VoltageForCutoff	-50 to -90 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DeflectionFactorD1D2	**125 to 150 V/in**	—
DeflectionFactorD3D4	**100 to 125 V/in**	—
DeflectionCircuitResistanceMaximum	**3 Mohm**	—

Tube Tinker

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

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