

ELECTRONIC TUBE REFERENCE

10KP7B

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

High-resolution aluminized P7 cathode-ray display tube using magnetic focusing and deflection, with blue-white fluorescence, long yellow phosphorescence, and an anode rating up to 13.2 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
No fixed ratings recorded.
CRT electron-gun/display section.

The Sylvania 10KP7B is a 10-inch long-persistence P7 cathode-ray tube with magnetic focus and deflection.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Magnetic text	—
Deflection Method	Magnetic text	—
Deflection Angle	50 deg	Approximate
Phosphor	P7 text	—
Fluorescence	Blue-White text	—
Phosphorescence	Yellow text	—
Persistence	Long text	—
Screen Aluminized	Yes text	—
High Resolution	Yes text	—
Light Transmittance	77 percent	Approximate
Cathode-to-All Capacitance	5 pF	Approximate
Grid1-to-All Capacitance	8 pF	Approximate
Maximum Line Width	0.38 mm	10KP7A/10KP7B

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	13200 V	—
Maximum Grid2 Voltage	770 V	—
Maximum Grid1 Negative Bias	200 V	—
Maximum Grid1 Positive Peak	2 V	—
Anode Voltage	9000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid2 Voltage	250 V	—
Grid1 Cutoff Voltage Minimum	-53 V	—
Grid1 Cutoff Voltage Maximum	-27 V	—
Focusing Coil Current	112 mA	Approximate; $\pm 15\%$
Maximum Grid1 Circuit Resistance	1.5 Mohm	—

TUBE TINKER

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