

ELECTRONIC TUBE REFERENCE

5DKP16

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch aluminized high-resolution CRT with magnetic focusing and deflection, designed for flying-spot scanner service. Its screen and beam system produce a fine scanning light source for image conversion.

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.
Magnetic-focus/magnetic-deflection CRT electron-gun/display section.

The Sylvania 5DKP16 is a 5-inch aluminized high-resolution CRT with magnetic focus and deflection, intended for flyingspotscanner service.

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	Nominal; ±10%
Focusing Method	Magnetic text	—
Deflection Method	Magnetic text	—
Deflection Angle	53 deg	Approximate
Fluorescence	Bluish Purple (UV) text	—
Persistence	Very Short text	—
Screen Aluminized	Yes text	—
Cathode-to-All Capacitance	5 pF	Approximate
Grid1-to-All Capacitance	8 pF	Approximate
Maximum Undelected Spot Displacement	9 mm	—
Maximum Line Width	0.16 mm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	8800 V	—
Maximum Grid2 Voltage	770 V	—
Maximum Grid1 Negative Bias	180 V	—
Maximum Grid1 Positive Peak	2 V	—
Maximum Heater-Cathode Voltage	180 V	EitherPolarity
Anode Voltage	8000 V	—
Grid2 Voltage	250 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 Cutoff Voltage Minimum	-75 V	—
Grid1 Cutoff Voltage Maximum	-30 V	—
Focusing Coil Current	136 mA	Nominal; $\pm 15\%$
Maximum Grid1 Circuit Resistance	1.5 Mohm	—

TUBE TINKER

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and their source documents.

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