

engineering data service

21DKP4

ADVANCE DATA

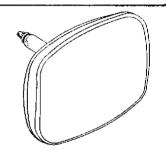
CHARACTERISTICS

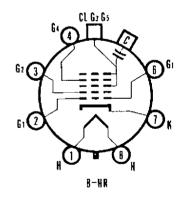
GENERAL DATA Focusing Method Deflection Method Deflection Angles (approx.) Electrostatic Magnetic	
Horizontal 105	Degrees Degrees Degrees
· · · · · · · · · · · · · · · · · · ·	Percent
ELECTRICAL DATA Heater Voltage 6.3	Volts
Heater Current O.30 ±5% Heater Warm-up Time 1 Direct Interelectrode Capacitances (approx.)	
	μμf μμf μμf Max. μμf Min.
MECHANICAL DATA Minimum Useful Screen Dimensions (Maximum Assured) 19 1/16 x 15 1/16 Minimum Useful Screen Area 262 Bulb Contact (Recessed Small Cavity Cap) J1-21 Bulb J171-G1 or equivalent Base B7-183	Inches
Basing 8HR Weight (approx.) 20	Pounds
RATINGS	
	Volts dc
Grid No. 4 Voltage (Focusing Electrode) -550 to +1100 Grid No. 2 Voltage 550 Grid No. 1 Voltage	Volts dc Volts dc
Negative Bias Value 154	Volts dc Volts dc Volts dc

from JETEC release #2161, April 14, 1958

QUICK REFERENCE DATA

Television Picture Tube
21" Direct Viewed
Rectangular Glass Type
Lightweight Tube
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
Electrostatic Focus
110° Magnetic Deflection
1 1/8" Neck Diameter
No Ion Trap
External Conductive Coating
6.3 Volt, 300 Ma Heater





SYLVANIA ELECTRIC PRODUCTS INC.
TELEVISION PICTURE TUBE

DIVISION

SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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MAXIMUM RATINGS (Absolute Maximum Values) (Cont'd.)

Peak Heater-Cathode Voltage
Heater Negative with Respect to Cathode
During Warmann Pariod not to Evened 1

During Warm-up Period not to Exceed 15 Seconds	450	Volts
After Equipment Warm-up Period	200	Volts
Heater Positive with Respect to Cathode	200	Volts

TYPICAL OPERATING CONDITIONS

Anode Voltage	16,000	Volts	dc
Grid No. 4 Voltage for Focus	0 to 400	Volts	dc
Grid No. 2 Voltage	300	Volts	ф¢
Grid No. 1 Voltage Required for Cutoff 3	-35 to -72	Volts	do

CIRCUIT VALUES

Grid No. 1 Circuit Resistance

1.5 Megohms Max.

NOTES:

- 1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times rated heater voltage divided by rated heater current.
- 2. External conductive coating must be grounded.
- 3. Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.

WARNING:

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.

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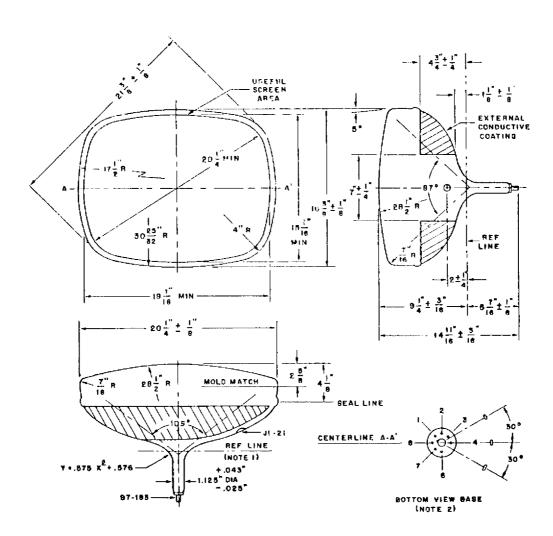


DIAGRAM NOTES:

- 1. Reference line is determined by plane C-C' of JETEC No. 126 Reference Line gauge when the gauge is seated against the bulb.
- 2. Base Pin No. 4 aligns with anode contact (J1-21) within 30°.