

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angles (approx.)	
Horizontal	105 Degrees
Diagonal	110 Degrees
Vertical	87 Degrees
Phosphor	Aluminized P4
Fluorescence	White
Persistence	Short to Medium
Faceplate	Gray Filter Glass
Light Transmittance (approx.)	79 Percent

ELECTRICAL DATA

Heater Voltage	6.3 Volts	
Heater Current	$0.6 \pm 5\%$ Ampere	
Heater Warm-up Time ¹	11 Seconds	
Direct Interelectrode Capacitances (approx.)		
Cathode to All Other Electrodes	5 μmf	
Grid No. 1 to All Other Electrodes	6 μmf	
External Conductive Coating to Anode ²	1500 μmf	Max.
	1000 μmf	Min.
Ion Trap Magnet	External, Single Field Type	

MECHANICAL DATA

Minimum Useful Screen Dimensions	
(Maximum Assured)	$14\frac{3}{4} \times 11\frac{1}{16}$ Inches
Minimum Useful Screen Area	155 Sq Inches
Bulb	J132 $\frac{1}{2}$ A1
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base	B6-185
Basing	7FA
Weight (approx.)	10 Pounds

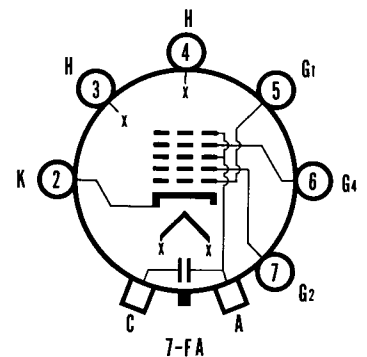
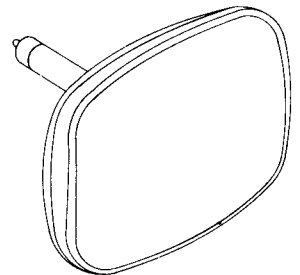
RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Voltage	17,600 Volts dc
Grid No. 4 Voltage	
(Focusing Electrode)	-550 to +1100 Volts dc
Grid No. 2 Voltage	550 Volts dc
Grid No. 1 Voltage	
Negative Bias Value	154 Volts dc
Negative Peak Value	220 Volts
Positive Bias Value	0 Volts dc
Positive Peak Value	2 Volts
Peak Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
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

QUICK REFERENCE DATA

Television Picture Tube
17" Direct Viewed
Rectangular Glass Type
Lightweight Tube
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
Electrostatic Focus
110° Magnetic Deflection
1 $\frac{1}{8}$ " Neck Diameter
Single Field Ion Trap
External Conductive Coating



**SYLVANIA ELECTRIC
PRODUCTS INC.**

**TELEVISION PICTURE TUBE
DIVISION**

SENECA FALLS, NEW YORK

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TYPICAL OPERATING CONDITIONS

Anode Voltage	14,000 Volts dc
Grid No. 4 Voltage for Focus	-50 to +350 Volts dc
Grid No. 2 Voltage	300 Volts dc
Grid No. 1 Voltage Required for Cutoff ³	-35 to -72 Volts dc
Field Strength of PM Ion Trap Magnet ⁴	33 Gaussess Min.

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Mcoghms Max.
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NOTES:

- 1. Heater warm-up time is the time required for the voltage across the heater terminals to increase to 5.0 volts in the JETEC test circuit, with E = 25 volts and series R = 31.5 ohms.
- 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.
- 4. For typical PM ion trap magnet with field strength tolerance of ±3 gaussess.

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. 7 aligns with anode contact (J1-21) within 30°
3. Dimensions are in inches.

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.