

## CHARACTERISTICS

### GENERAL DATA

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Focusing Method . . . . .               | Self Focusing (Electrostatic) |
| Deflecting Method . . . . .             | Magnetic                      |
| Deflection Angles (approx.)             |                               |
| Vertical . . . . .                      | 87 Degrees                    |
| Horizontal . . . . .                    | 105 Degrees                   |
| Diagonal . . . . .                      | 110 Degrees                   |
| Phosphor . . . . .                      | P4                            |
| Fluorescence . . . . .                  | White                         |
| Persistence . . . . .                   | Short to Medium               |
| Faceplate . . . . .                     | Gray Filter Glass             |
| Light Transmittance (approx.) . . . . . | 80 Percent                    |

### ELECTRICAL DATA

|                                              |            |
|----------------------------------------------|------------|
| Heater Voltage . . . . .                     | 6.3 Volts  |
| Heater Current (approx.) . . . . .           | 0.6 Ampere |
| Direct Interelectrode Capacitances (approx.) |            |
| Cathode to All Other Electrodes . . . . .    | 4 $\mu$ f  |
| Grid No. 1 to All Other Electrodes . . . . . | 6 $\mu$ f  |

### MECHANICAL DATA

|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Minimum Useful Screen Dimensions . . . . .         | 7 $\frac{1}{2}$ x 5 $\frac{7}{8}$ Inches |
| Bulb Contact (Recessed Small Cavity Cap) . . . . . | J1-21                                    |
| Base . . . . .                                     | B6-185                                   |
| Basing . . . . .                                   | 7FG                                      |
| Weight (approx.) . . . . .                         | 2 Pounds                                 |

## RATINGS

### MAXIMUM RATINGS (Absolute Maximum Values)

|                                                   |              |    |
|---------------------------------------------------|--------------|----|
| Anode Voltage . . . . .                           | 22,000 Volts | dc |
| Grid No. 2 (and Grid No. 4) Voltage . . . . .     | 550 Volts    | dc |
| Grid No. 1 Voltage                                |              |    |
| Negative Bias Value . . . . .                     | 155 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    |    |

### TYPICAL OPERATING CONDITIONS

|                                                               |                  |    |
|---------------------------------------------------------------|------------------|----|
| Anode Voltage . . . . .                                       | 16,000 Volts     | dc |
| Grid No. 2 (and Grid No. 4) Voltage . . . . .                 | 300 Volts        | dc |
| Grid No. 1 Voltage Required for Cutoff <sup>1</sup> . . . . . | -35 to -72 Volts | dc |

### CIRCUIT VALUES

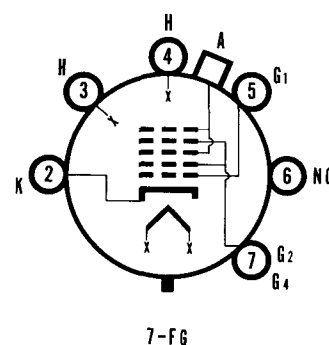
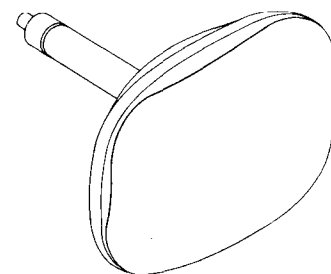
|                                         |                  |
|-----------------------------------------|------------------|
| Grid No. 1 Circuit Resistance . . . . . | 1.5 Megohms Max. |
|-----------------------------------------|------------------|

### NOTE:

1. Visual extinction of raster.

## QUICK REFERENCE DATA

Receiver Check Tube  
8" Rectangular, All Glass  
Self Focusing  
(Electrostatic)  
No Ion Trap  
110° Magnetic Deflection  
Gray Filter Glass



7-FG

SYLVANIA ELECTRIC  
PRODUCTS INC.

TELEVISION PICTURE TUBE  
DIVISION

SENECA FALLS, NEW YORK

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**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.

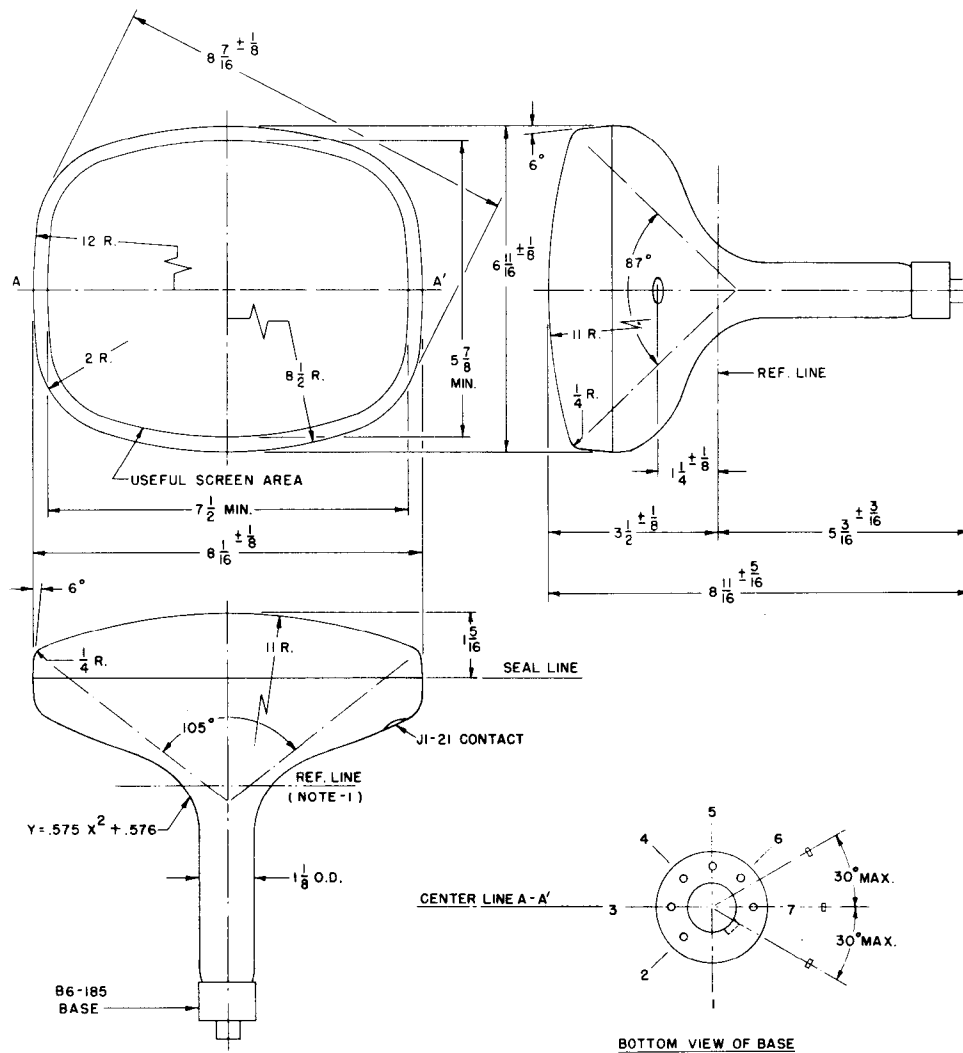


**DIAGRAM NOTES:**

1. Reference line is determined by the 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 horizontal centerline within  $30^\circ$  and is on same side as anode contact (J1-21).
3. Dimensions are in inches.