

## CHARACTERISTICS

### GENERAL DATA

|                                       |                 |
|---------------------------------------|-----------------|
| Focusing Method . . . . .             | Electrostatic   |
| Deflection Method . . . . .           | Magnetic        |
| Deflection Angles (Approx.) . . . . . | 40°             |
| Prophor . . . . .                     | Aluminized P-24 |
| Fluorescence . . . . .                | Green           |
| Phosphorescence . . . . .             | Green           |
| Persistence . . . . .                 | Short           |
| Faceplate . . . . .                   | Clear, Flat     |

\*In addition to the type shown, the 5AUP- can be supplied with several other screen phosphors.

### ELECTRICAL DATA

|                                              |                      |
|----------------------------------------------|----------------------|
| Heater Voltage . . . . .                     | 6.3 Volts            |
| Heater Current . . . . .                     | 0.6 ± 10% Amperes    |
| Direct Interelectrode Capacitances (Approx.) |                      |
| Cathode to All Other Electrodes . . . . .    | 5 μμfd               |
| Grid No. 1 to All Other Electrodes . . . . . | 8 μμfd               |
| Ion Trap . . . . .                           | No Ion Trap Required |

### MECHANICAL DATA

|                                                                  |                              |
|------------------------------------------------------------------|------------------------------|
| Minimum Useful Screen Dimensions (Maximum Assured)               | 4 1/4 Inches                 |
| Overall Length . . . . .                                         | 12 1/2 ± 3/8 Inches          |
| Bulb Contact (Recessed Small Cavity Cap) . . . . .               | J1-21                        |
| Base (Small Shell Duo Decal 7 Pin) . . . . .                     | B7-51                        |
| Basing . . . . .                                                 | 12C                          |
| Bulb . . . . .                                                   | J40L                         |
| External Conductive Neck Coating to Anode <sup>1</sup> . . . . . | 500 μμf Max.<br>100 μμf Min. |
| Weight (Approx.) . . . . .                                       | 1.4 Pounds                   |

## RATINGS

### MAXIMUM RATINGS (Absolute Maximum Values)

|                                                   |              |    |
|---------------------------------------------------|--------------|----|
| Maximum Anode Voltage . . . . .                   | 30,000 Volts | dc |
| Minimum Anode Voltage . . . . .                   | 20,000 Volts | dc |
| Grid No. 3 Voltage (Focusing Electrode) . . . . . | 6600 Volts   | dc |
| Grid No. 2 Voltage . . . . .                      | 385 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 . . . . .          | 165 Volts    |    |
| Heater Positive with Respect to Cathode . . . . . | 165 Volts    |    |

### TYPICAL OPERATING CONDITIONS

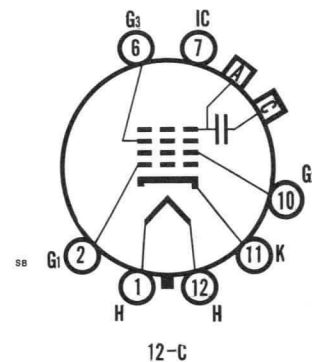
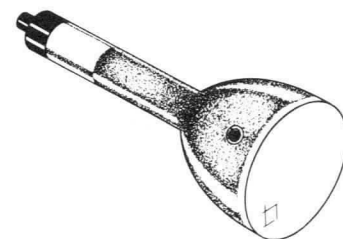
|                                                           |                    |    |
|-----------------------------------------------------------|--------------------|----|
| Anode Voltage . . . . .                                   | 27,000 Volts       | dc |
| Grid No. 3 Voltage for Focus (Ib = 200 μa) . . . . .      | 4600 to 5800 Volts | dc |
| Grid No. 2 Voltage . . . . .                              | 200 Volts          | dc |
| Grid No. 1 Voltage for Spot Cutoff <sup>2</sup> . . . . . | -40 to -100 Volts  | dc |

### CIRCUIT VALUES

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

## QUICK REFERENCE DATA

Color Flying Spot Scanner Tube  
5" Round Glass Type  
Flat Faceplate  
Clear Faceplate  
Magnetic Deflection  
Electrostatic Focus  
No Ion Trap  
Aluminized Screen



## SYLVANIA ELECTRONIC TUBES

A Division of  
Sylvania Electric Products Inc.

### PICTURE TUBE OPERATIONS SENECA FALLS, NEW YORK

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File Under

SPECIAL AND GENERAL PURPOSE  
CATHODE RAY TUBES

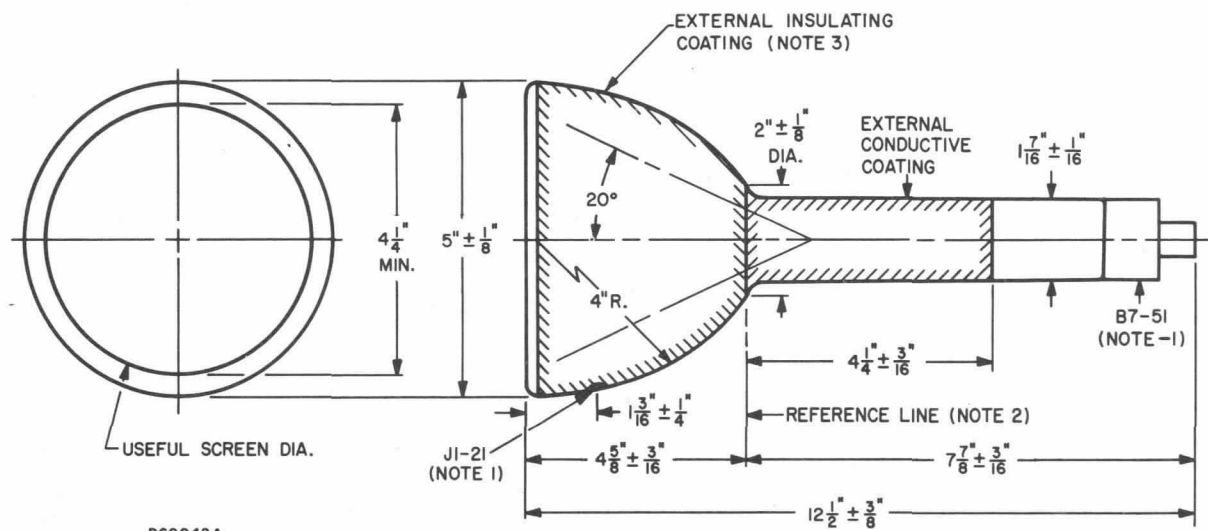
## NOTE:

1. External conductive neck coating must be grounded.

## 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.

## OUTLINE



D60042A

## DIAGRAM NOTES:

1. The plane through the tube axis and vacant pin position No. 3 may vary from the plane through the tube axis and anode terminal by an angular tolerance (measured about the tube axis) of  $\pm 10^\circ$ . Anode terminal is on the same side as vacant pin position No. 3.
2. With tube neck inserted through flared end of reference line gauge (JEDEC No. 110) and with the tube seated in the gauge, the reference line is determined by intersection of plane CC' of the gauge with the glass funnel.
3. The 5AUP- should be handled by the neck only. Fingerprints or dust on the insulating coating on the bulb may cause electrical breakdown during humid weather.