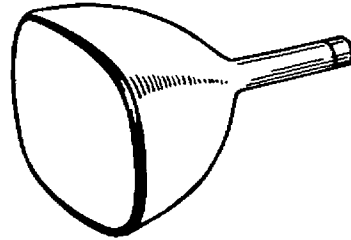


## ELECTRICAL DATA

Deflecting Method .....	Magnetic
Focusing Method .....	Magnetic
Deflection Angles, approximate	
Horizontal .....	65 Degrees
Vertical .....	50 Degrees
Diagonal .....	70 Degrees
Direct Interelectrode Capacitances	
Cathode to all other electrodes, approximate....	5 $\mu\mu$ f
Grid #1 to all other electrodes, approximate....	6 $\mu\mu$ f
External Conductive Coating to Anode .....	1500 max. $\mu\mu$ f
	750 min. $\mu\mu$ f
Heater Current at 6.3 volts .....	600 + 10% Ma
Faceplate	
Light Transmission, Approximate .....	72 percent



- Low Anode Voltage
- Non-Ion Trap
- Aluminized
- High Resolution
- Magnetic Deflection
- Magnetic Focus

Phosphor	P1	P2	P4	P7	P11	P12	P19	P25
Fluorescence	Green	Green	White	Blue	Blue	Orange	Orange	Orange
Phosphorescence	-	Green	-	Yellow	-	Orange	Orange	Orange
Persistence	Medium	Long	Medium	Long	Short	Med. Long	Very Long	Very Long

## MECHANICAL DATA

Overall Length .....	19 $\frac{3}{16}$ $\pm$ $\frac{1}{16}$ Inches
Greatest Diameter of Tube .....	16 $\frac{5}{16}$ $\pm$ $\frac{1}{16}$ Inches
Greatest Dimensions of Tube	
Diagonal .....	16 $\frac{5}{16}$ $\pm$ $\frac{1}{16}$ Inches
Width .....	15 $\frac{5}{16}$ $\pm$ $\frac{1}{16}$ Inches
Height .....	12 $\frac{1}{4}$ $\pm$ $\frac{1}{16}$ Inches
Minimum Useful Screen Dimensions (Projected)	
Diagonal .....	15 $\frac{5}{16}$ Inches
Horizontal axis .....	14 $\frac{1}{4}$ Inches
Vertical axis .....	10 $\frac{3}{4}$ Inches.
Neck Length .....	7 $\frac{1}{2}$ $\pm$ $\frac{3}{16}$ Inches
Bulb Contact .....	J1-21
Base .....	B5-57
Basing .....	12N
Bulb Contact Alignment	
J1-21 contact aligns with pin position #6 $\pm$ 30 Degrees	
Base Alignment	
Pin #6 aligns with horizontal picture axis $\pm$ 30 Degrees	

## RATINGS

### (Design Maximum System)

Unless otherwise specified, voltage values are positive and measured with respect to cathode

Maximum Anode Voltage .....	9000 Volts
Minimum Anode Voltage .....	5000 Volts
Maximum Grid #2 Voltage.....	500 Volts
Grid #1 Voltage	
Maximum Negative Value .....	140 Volts DC
Maximum Negative Peak Value .....	200 Volts
Maximum Positive Value .....	0 Volts DC
Maximum Positive Peak Value .....	2 Volts

## RATINGS (Continued)

Maximum Heater-Cathode Voltage	
Heater negative with respect to cathode	
During warm-up period not to exceed 15	
15 seconds .....	410 Volts
After equipment warm-up period.....	180 Volts

## TYPICAL OPERATING CONDITIONS

### GRID DRIVE SERVICE

Unless otherwise specified, all voltage values are positive with respect to cathode.

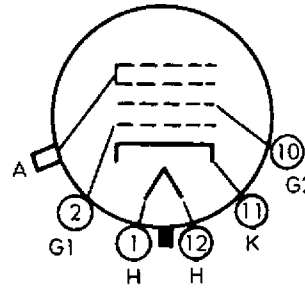
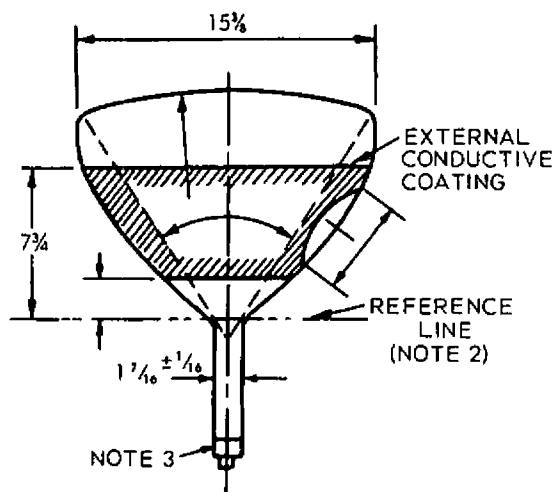
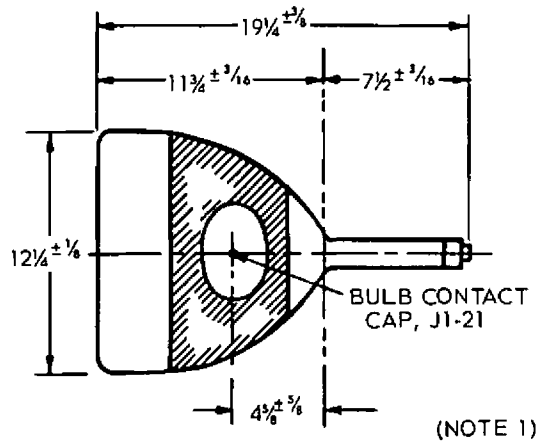
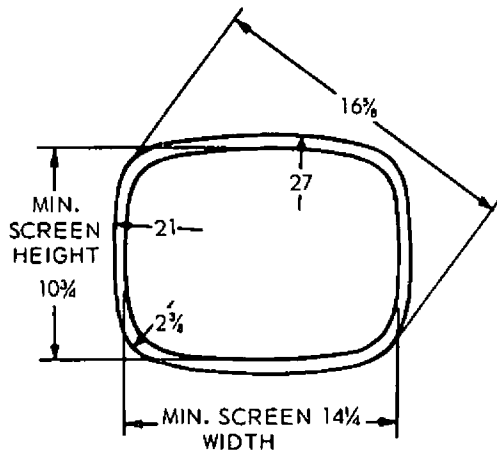
Anode Voltage .....	5000 Volts DC
Grid #2 Voltage .....	300 Volts DC
Grid #1 Voltage (Note 1) .....	-28 to -72 Volts DC
Focusing Coil Current (Note 2).....	60 Ma DC

## MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance.....	1.5 Megohms
---	-------------

## BASE CONNECTIONS

Pin Connections	
Pin 1 : Heater	Pin 11: Cathode
Pin 2 : Grid #1	Pin 12: Heater
Pin 10: Grid #2	Bulb Contact: Anode



PIN 1: Heater      PIN 10: Grid #2  
 PIN 2: Grid #1    PIN 11: Cathode  
 CAP: Anode        PIN 12: Heater

**NOTE 1:** The plane through the tube axis and Pin No. 6 may vary from the plane through the tube axis and cap by angular tolerance (measured about the tube axis) of  $\pm 30^\circ$ . Cap is on same side as Pin No. 6

**NOTE 2:** With tube neck inserted through flared end of reference-line gauge (JETEC No. 110) and with tube seated in gauge, the reference line is determined by the intersection of the plane CC' of the gauge with the glass funnel

**NOTE 3:** Socket for this base should not be rigidly mounted; it should have flexible leads and be allowed to move freely. Bottom circumference of base shell will fall within a circle concentric with bulb axis and having a diameter of  $2\frac{1}{2}$ ".