

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 μ f
Grid #1 to all other electrodes, approximate....	6 μ f
External Conductive Coating to Anode	1500 max. μ f
	750 min. μ f
Heater Current at 6.3 volts	600 + 10% Ma
Faceplate	
Light Transmission, Approximate	72 percent

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

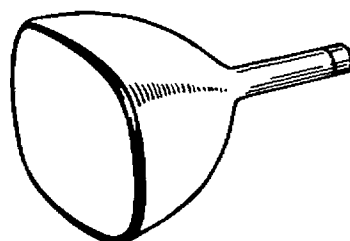
Overall Length	19 $\frac{3}{16}$ $\pm$ $\frac{1}{16}$ Inches
Greatest Diameter of Tube	16 $\frac{5}{16}$ $\pm$ $\frac{1}{16}$ Inches
Greatest Dimensions of Tube	
Diagonal	16 $\frac{5}{16}$ $\pm$ $\frac{1}{16}$ Inches
Width	15 $\frac{5}{16}$ $\pm$ $\frac{1}{16}$ Inches
Height	12 $\frac{1}{4}$ $\pm$ $\frac{1}{16}$ Inches
Minimum Useful Screen Dimensions (Projected)	
Diagonal	15 $\frac{5}{16}$ Inches
Horizontal axis	14 $\frac{1}{4}$ Inches
Vertical axis	10 $\frac{1}{4}$ 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



Low Anode Voltage

Non-Ion Trap

Aluminized

High Resolution

Magnetic Deflection

Magnetic Focus

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

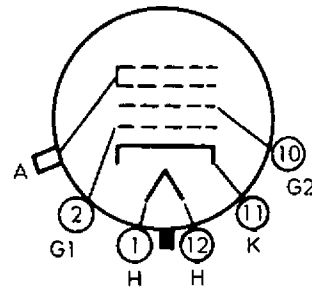
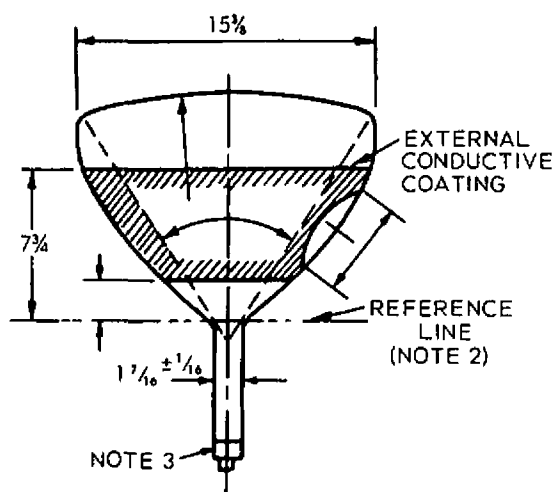
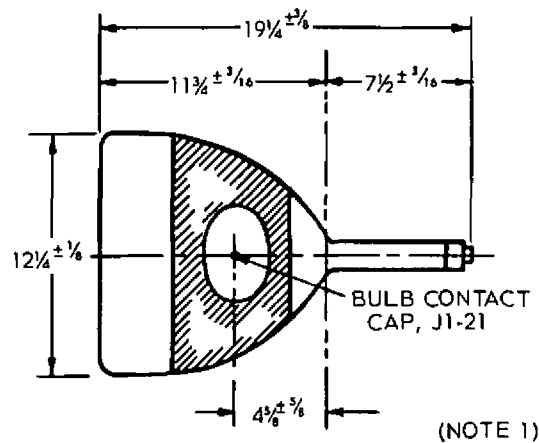
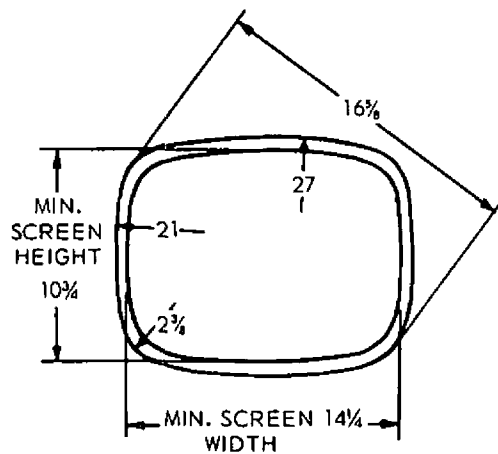
MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance.....	1.5 Megohms
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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 2: Grid #1
CAP: Anode

PIN 10: Grid #2
PIN 11: Cathode
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 $2\frac{1}{2}$ "