

MECHANICAL DATA

Overall Length	14 3/8 ± 5/16 inches
Greatest Dimensions of Tube	
Diagonal	21 3/8 ± 1/8 inches
Width	20 1/4 ± 1/8 inches
Height	16 3/8 ± 1/8 inches
Minimum Useful Screen Dimensions (Projected)	
Diagonal	20 1/4 inches
Horizontal Axis	19 1/16 inches
Vertical Axis	15 1/16 inches
Area	262 sq. inches
Neck Length	5 1/8 ± 3/16 inches
Bulb	J171G1
Bulb Contact	J1-21
Basing	B7-237 or B7-208
Bulb Contact Alignment	8HR
Anode Contact aligns with pin position No. 4	

RATINGS (Design Maximum System)

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

Maximum Anode Voltage	22,000 volts
Minimum Anode Voltage	15,000 volts
Maximum Grid #4 (Focusing Electrode) Voltage	-500 to +1000 volts
Maximum Grid #2 Voltage	100 volts
Minimum Grid #2 Voltage	40 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
Maximum Heater Voltage	6.9 volts
Minimum Heater Voltage	5.7 volts
Maximum Heater-Cathode Voltage	
Heater negative with respect to cathode	
During warm-up period not to exceed 15 sec.	410 volts
After equipment warm-up period	180 volts
Heater positive with respect to cathode	180 volts

TYPICAL OPERATING CONDITIONS (Cathode Drive Service)

Unless otherwise specified, all voltage values are positive with respect to Grid #1.

Anode Voltage	18,000 volts
Grid #4 Voltage (Focusing Electrode, Notes 2 & 3).	250 volts DC
Grid #2 Voltage	50 volts DC
Cathode Voltage (Note 1)	31 to 49 volts DC

MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance	1.5 max. megohm
Grid #2 Circuit Resistance	0.1 min. megohm
Focusing Electrode Circuit Resistance	0.1 min. megohm

NOTES:

1. Visual extinction of focused raster.
2. With the combined Grid #1 bias voltage and video-signal voltage adjusted to give an anode current of 150 microamperes on a 19 1/4 X 15 1/4" pattern from RCA 2F21 Monoscope or equivalent.
3. Individual tubes will have satisfactory focus at some value between 0 and 500 volts.

CATHODE RAY TUBE DEPARTMENT

GENERAL  **ELECTRIC**

Syracuse, N. Y.

21FMP4

SCREEN DIMENSIONS

DIAGONAL	20 1/4
WIDTH	19 1/16
HEIGHT	15 1/16
AREA	262 SQ. IN

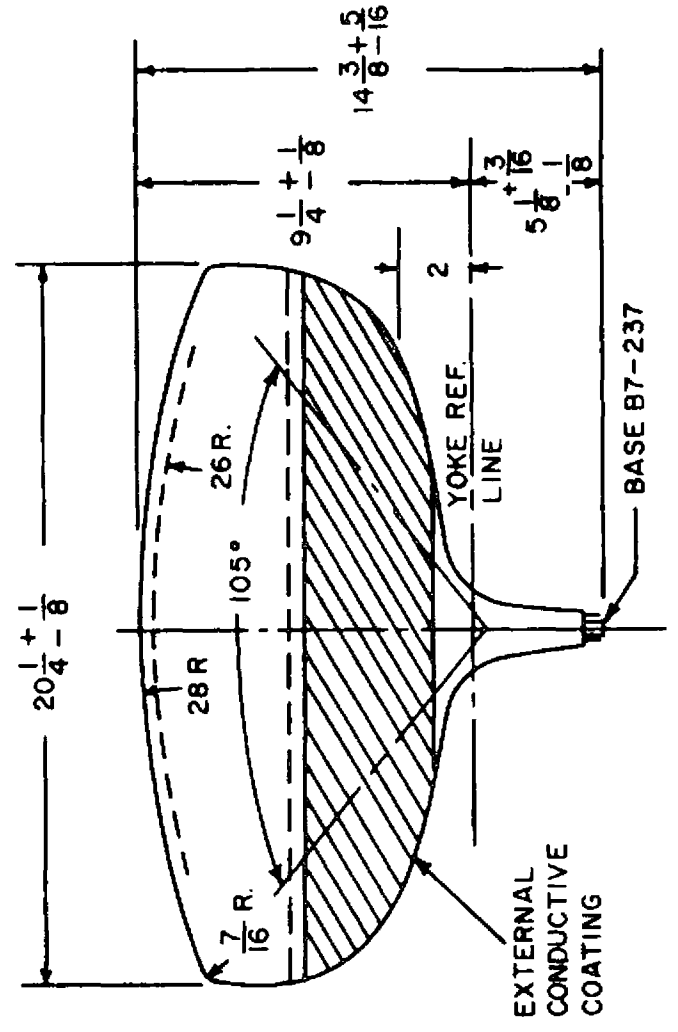
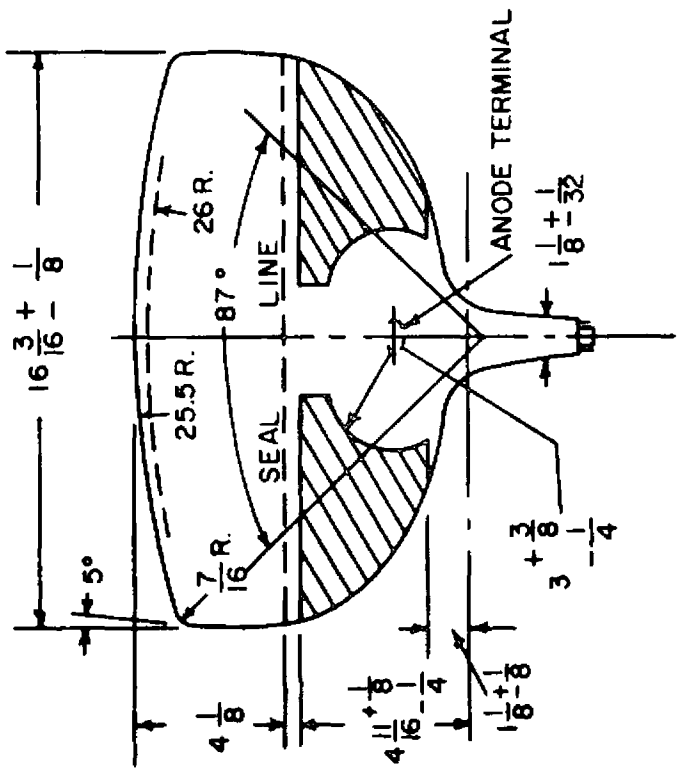
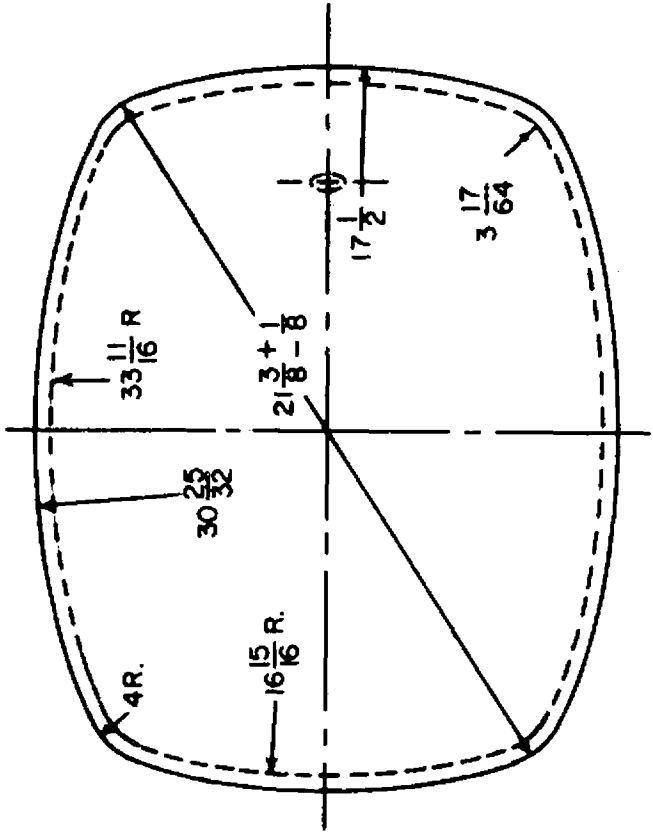
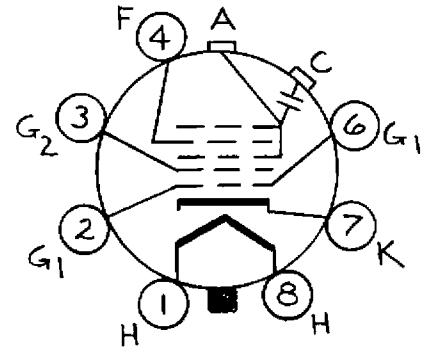


Diagram Notes

1. The reference line is determined by the intersection of the plane C-C of gage (EIA No. 126) with the glass funnel.
2. Deflection angle on the diagonal is 110° .
3. Anode terminal aligns with pin No. 4 ± 30 degrees.
4. Use a non-rigidly mounted socket with flexible leads. Bottom circumference of base wafer will fall within 1-3/4 inch diameter circle concentric with the bulb axis.



BASING DIAGRAM
8HR

CATHODE RAY TUBE DEPARTMENT
GENERAL ELECTRIC COMPANY
SYRACUSE, NEW YORK