CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angles (approx.)	
Horizontal	105 Degrees
Diagonal	110 Degrees
Vertical	87 Degrees
Phosphor	Aluminized P4
Fluorescence	White
Persistence	Short to Medium
Faceplate	Gray Filter Glass
Light Transmittance (approx.)	77 Percent

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current	0.60 ± 5% Ampere
Heater Warm-up Time[1]	11 Seconds
Direct Interelectrode Capacitances (approx.)	
Cathode to All Other Electrodes	5 $\mu\mu$f
Grid No. 1 to All Other Electrodes	6 $\mu\mu$f
External Conductive Coating to Anode[2]	1500 $\mu\mu$f Max.
	1000 $\mu\mu$f Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions (Maximum Assured)	
Height	$11\frac{11}{16}$ Inches
Width	$14\frac{3}{4}$ Inches
Diagonal	$15\frac{3}{4}$ Inches
Area	155 Sq. Inches
Neck Length	$3\frac{5}{8} \pm \frac{1}{8}$ Inches
Overall Length	$10\frac{3}{4} \pm \frac{1}{4}$ Inches
Bulb	J132½-A or J132½-B
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base	B7-208
Basing	8HR
Weight (approx.)	10 Pounds

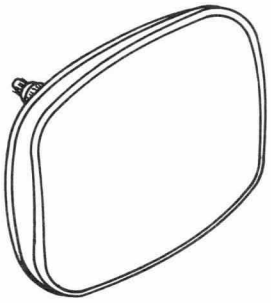
RATINGS

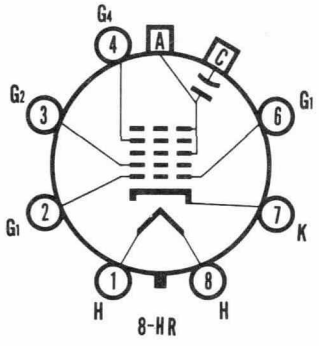
MAXIMUM RATINGS (Design Maximum Values) Grid Drive Service

Anode Voltage	17,600 Volts dc
Grid No. 4 Voltage (Focusing Electrode)	−550 to +1100 Volts dc
Grid No. 2 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

QUICK REFERENCE DATA

Television Picture Tube
17″ Direct View
Short Neck
Rectangular Glass Type
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
Electrostatic Focus
110° Magnetic Deflection
1⅛″ Neck Diameter
No Iron Trap
External Conductive Coating





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TYPICAL OPERATING CONDITIONS — Grid Drive Service

Anode Voltage	14,000 Volts	dc
Grid No. 4 Voltage for Focus	0 to 400 Volts	dc
Grid No. 2 Voltage	300 Volts	dc
Grid No. 1 Voltage Required for Cutoff[3]	−35 to −72 Volts	dc

CIRCUIT VALUES

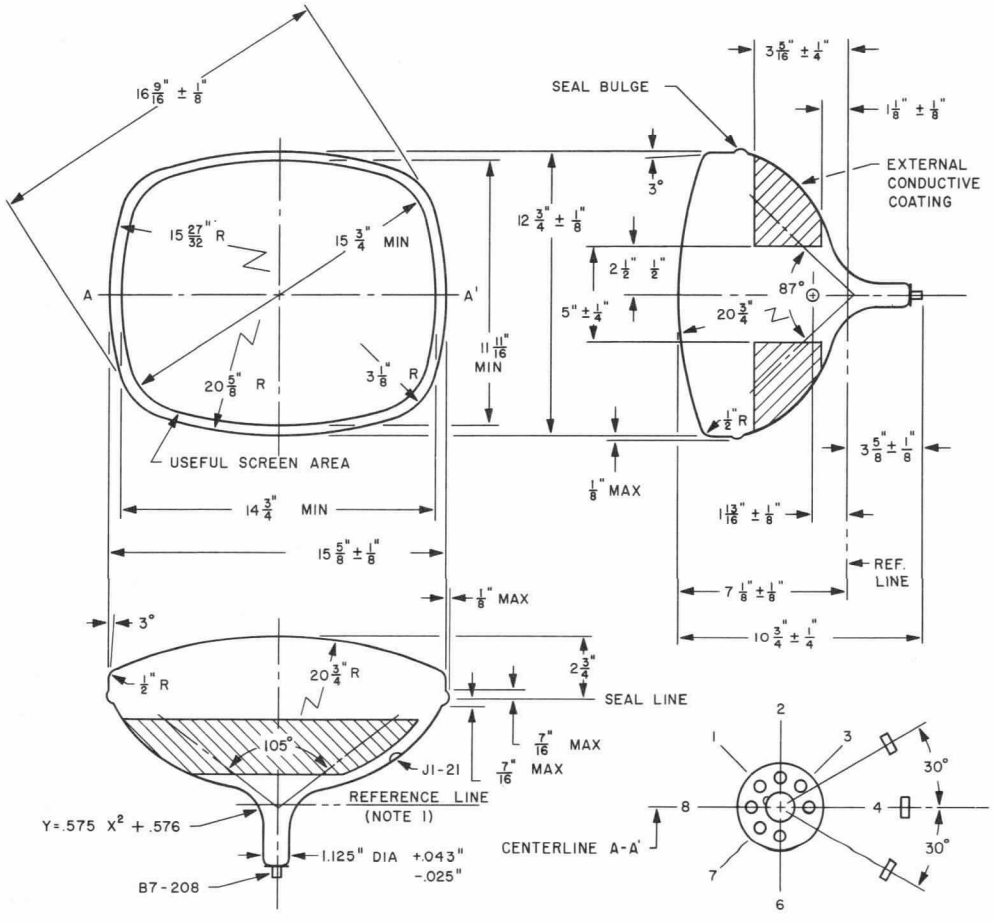
Circuit No. 1 Circuit Resistance	1.5 Megohm Max.

NOTES:

1. *Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.*
2. *External conductive coating must be grounded.*
3. *Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.*

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 plane C-C' of JEDEC No. 126 Reference Line Gauge, when the gauge is seated against the bulb.*
2. *Base Pin No. 4 aligns with horizontal centerline (A-A') within 30° and is on same side as anode contact, J1-21.*