

ELECTRICAL DATA

OPTICAL DATA

MECHANICAL DATA

from JEDEC release #4255, Amv 13, 1963

RATINGS (Design Maximum System)

Unless otherwise specified, voltage values are positive and measured with respect to Grid #1

Maximum Anode Voltage	20,000 Volts
Minimum Anode Voltage	10,000 Volts
Maximum Grid #4 (Focusing Electrode) Voltage	+1100 -500
Maximum Grid #2 Voltage	60 Volts
Minimum Grid #2 Voltage	25 Volts
Cathode Voltage	
Maximum Negative Value	0 Volts DC
Maximum Negative Peak Value	2 Volts
Maximum Positive Value	100 Volts DC
Maximum Positive Peak Value	150 Volts
Maximum Heater Voltage	6.9 Volts
Minimum Heater Voltage	5.8 Volts
Maximum 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

CATHODE DRIVE SERVICE

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

Anode Voltage	16,000 Volts DC
Grid #4 Voltage (Focusing Electrode)	
(Notes 2 & 3)	250 Volts DC
Grid #2 Voltage	50 Volts DC
Cathode Voltage (Note 1)	35 to 55 Volts DC

MAXIMUM CIRCUIT VALUES

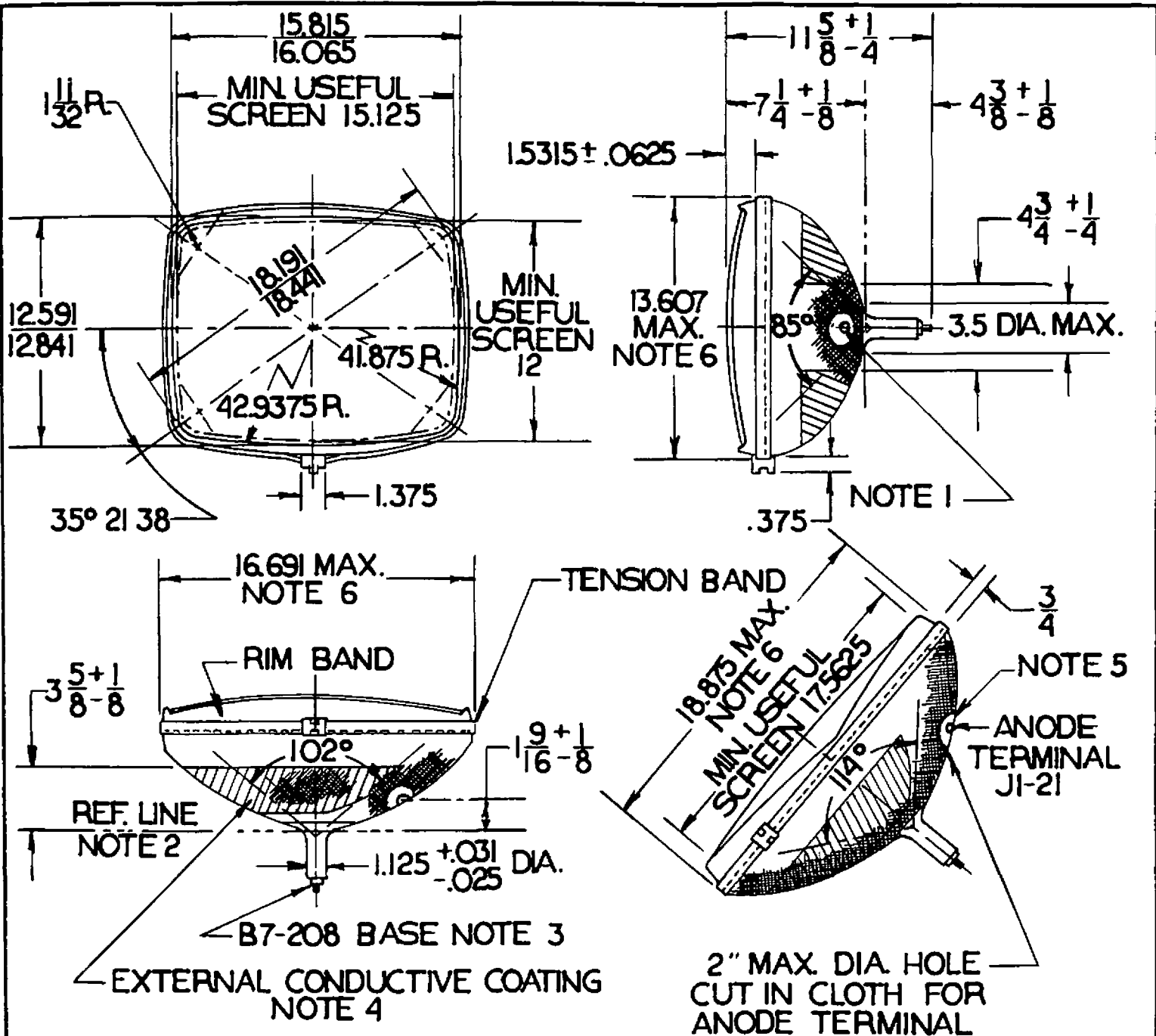
Maximum Grid #1 Circuit Resistance	1.5 Megohms
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GRAPHS AND DRAWINGS

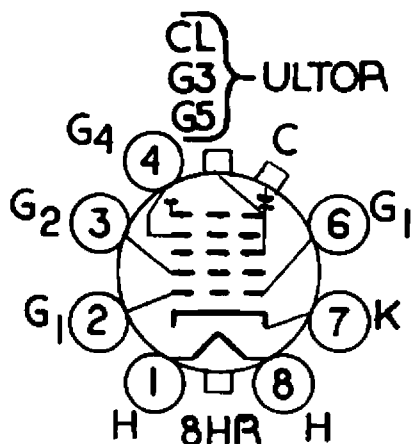
Tube Outline with essential dimensions and tolerances.

Pin Connections:

Pin 1 - Heater	Pin 6 - Grid No. 1
Pin 2 - Grid No. 1	Pin 7 - Cathode
Pin 3 - Grid No. 2	Pin 8 - Heater
Pin 4 - Grid No. 4	



SOCKET CONNECTIONS



- PIN 1: HEATER
 PIN 2: GRID NO. 1
 PIN 3: GRID NO. 2
 PIN 4: GRID NO. 4
 PIN 6: GRID NO. 1
 PIN 7: CATHODE
 PIN 8: HEATER
 CAP: ULTOR (GRID NO. 3, GRID NO. 5, COLLECTOR)
 C: EXTERNAL CONDUCTIVE COATING

DRAWN BY	SCALE	EFFECTIVE	DISTRIBUTION	DRAWING NO.
A.L. PRIBYL		3-23-63		19DHP4

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 100 microamperes on a 15 1/8" X 12" pattern from RCA 2F21 Monoscope or equivalent.
3. Individual tubes will have satisfactory focus at some value between 0 and +400 volts.

NOTES FOR DIMENSIONAL OUTLINE:

1. With tube neck inserted through flared end of reference-line gauge JEDEC No. G-126 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.
2. The plane through the tube axis and Pin No. 4 may vary from the plane through the tube axis and ultor terminal by angular tolerance (measured about the tube axis) of $\pm 30^\circ$. Ultor terminal is on the same side as Pin No. 4.
3. Socket for this base should not be rigidly mounted; it should have flexible leads and be allowed to move freely. The design of the socket should be such that the circuit wiring cannot impress lateral strains through the socket contacts on the base pins. Bottom circumference of base wafer will fall within a circle concentric with bulb axis and having a diameter of 1 3/4".
4. External conductive coating must be grounded.
5. To clean this area, wipe only with soft dry lint-less cloth.
6. Measured to include rim band and tension strap.