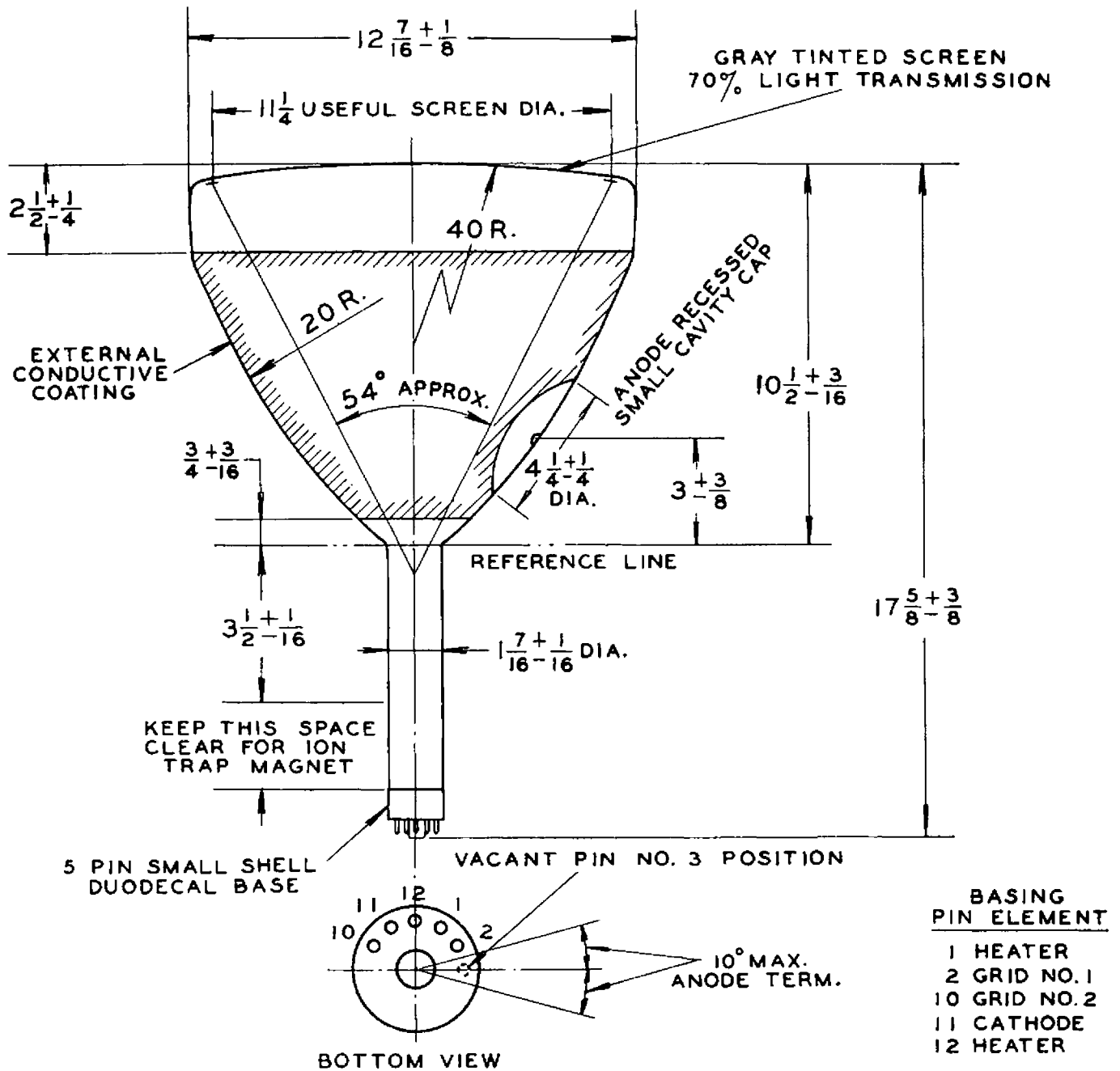


Sheldon
TYPE 12ZP4A

12ZP4 - SAME AS 12ZP4A EXCEPT IT HAS A CLEAR FACE PLATE



NOTE:

REFERENCE LINE:- POINT WHERE $1.500'' \begin{smallmatrix} +.003'' \\ - .000'' \end{smallmatrix}$ DIA. RING GAUGE, 2' LONG, (RETMA No. 112) WILL STOP AGAINST BULB.

SHELDON ELECTRIC CO.

DIVISION OF ALLIED ELECTRIC PRODUCTS INC.

68-98 COIT STREET, IRVINGTON 11, N. J.



Sheldon 12ZP4A

12½" Directly Viewed Kinescope With Ion Trap and
Metal Backed Screen

GENERAL CHARACTERISTICS

Directly viewed picture tube intended for use in television receivers. The tube utilizes magnetic focus and magnetic deflection and contains an electron gun designed to be used with an ion trap magnet. This tube contains a reflective metal backed screen to increase light output.

12ZP4 - SAME AS 12ZP4A EXCEPT IT HAS A CLEAR FACE PLATE

ELECTRICAL

Heater Voltage	6.3 Volts
Heater Current	0.6 ± 10% Amperes
Focusing Method.....	Magnetic
Deflecting Method	Magnetic
Deflecting Angle	54 Approx. Deg.
Phosphor	No. 4
Fluorescence	White
Persistence	Medium
External Conductive Coating	
To Anode No. 2.....	2500 Max. μuf 500 Min. μuf

DIRECT INTERELECTRODE CAPACITANCES, APPROX.

Cathode to all other electrodes	5.0 μuf
Grid No. 1 to all other electrodes	6.0 μuf

MECHANICAL

Overall Length.....	17 5/8" ± ¼"
Greatest Diameter of Bulb	12 7/16" ± ¼"
Minimum Useful Screen Diameter	11 1/4"
Bulb Contact, Recessed Small Cavity Cap	
JETEC Designation	J1-21
Base, Small Shell Duodecal, 5-Pin	
JETEC Designation	B5-57
Basing JETEC Designation	12D
Bulb Contact aligns with Pin #3	
(vacant) ± 10 Degrees	

MAXIMUM RATINGS (Design Center Values)

Anode Voltage	12,000 Max. Volts D-C
Grid No. 2 Voltage.....	410 Max. Volts D-C

GRID NO. 1 VOLTAGE

Negative-Bias Value	125 Max. Volts D-C
Positive-Bias Value	0 Max. Volts D-C
Positive Peak Value	2 Max. Volts

PEAK HEATER CATHODE VOLTAGE

Heater Negative with respect to cathode	
(Note 1).....	140 Max. Volts D-C
Heater Positive with respect to cathode	
.....	140 Max. Volts D-C

JETEC COMPARATIVE CONDITIONS

Anode Voltage	11,000 Volts D-C
Grid No. 2 Voltage	250 Volts D-C
Grid No. 1 Voltage (Note 2)	
.....	- 27 to - 63 Volts D-C
Focusing Coil Current (Note 3)	
.....	135 Approx. Milliamperes D-C
Ion Trap Current (Note 4)	
.....	85 Approx. Milliamperes D-C

MAXIMUM CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms
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NOTES

1. A value of 410 max. volts is allowed during equipment warm-up period not to exceed 15 seconds.
2. Visual extinction of undeflected focused spot.
3. For RETMA standard focus coil #106 or equivalent with the combined grid No. 1-bias voltage and video-signal voltage adjusted to produce a highlight brightness of 35 foot lamberts on a 7-3/4" x 10-1/2" picture area. Distance from reference line of bulb to center of focus coil air gap shall be 3.25 inches.
4. With JETEC standard ion trap magnet #111 or equivalent.