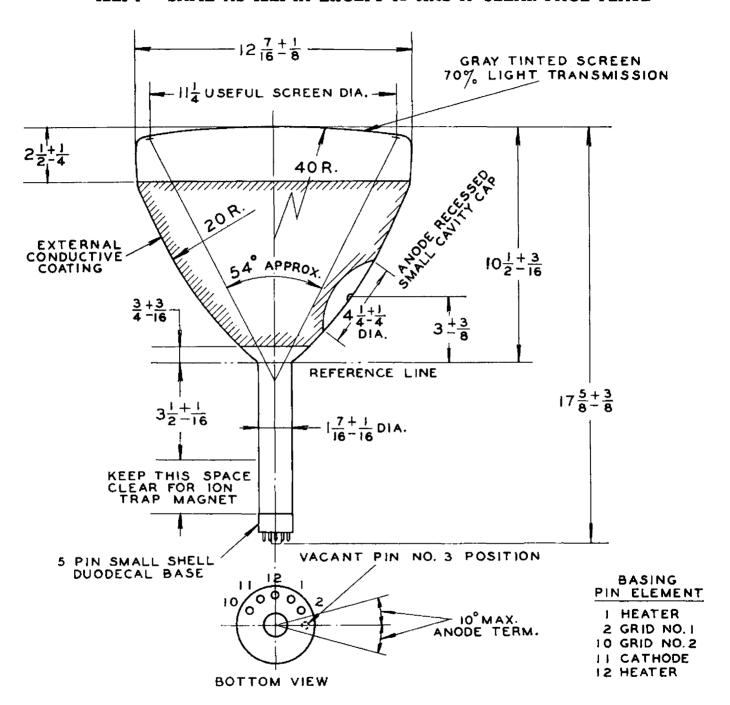
# Sheldon

### TYPE 12ZP4A

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



#### NOTE:

REFERENCE LINE:- POINT WHERE 1.500" - .000° 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 tocus 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	MAXIMUM RATINGS (Design Center Values)
Heater Voltage	Anode Voltage
Deflecting Method Magnetic Deflecting Angle 54 Approx. Deg. Phosphox No. 4 Fluorescence White Persistence Medium	GRID NO. 1 VOLTAGE  Negative-Bias Value
External Conductive Coating To Anode No. 2 2500 Max. uuf 500 Min. uuf	PEAK HEATER CATHODE VOLTAGE  Heater Negative with respect to cathode  (Note 1)140 Max. Volts. D-C
DIRECT INTERELECTRODE CAPACITANCES, APPROX.	Heater Positive with respect to cathode 140 Max. Volts. D-C
Cathods to all other electrodes 5.0 uuf Grid No. 1 to all other electrodes 6.0 uuf	JETEC COMPARATIVE CONDITIONS
MECHANICAL	Anode Voltage 11,000 Volts D-C
Overall Length	Grid No. 2 Voltage250 Volta D-C
Greatest Diameter of Bulb12 7/16' ± 1/3'	Grid No. 1 Voltage (Note 2)
Minimum Useful Screen Diameter	-27 to -63 Volts D-C
Bulb Contact, Recessed Small Cavity Cap JETEC Designation	Focusing Coil Current (Note 3)  135 Approx. Milliamperes D-C
Base, Small Shell Duodecal, 5-Pin JETEC Designation	lon Trap Current (Note 4) 85 Approx. Milliamperes D-C
Basing JETEC Designation 12D	MANUAL CIRCUM UNIVERS
Bulb Contact aligns with Pin #3 (vacant) $\pm$ 10 Degrees	MAXIMUM CIRCUIT VALUES  Grid No. 1 Circuit Resistance

#### 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.