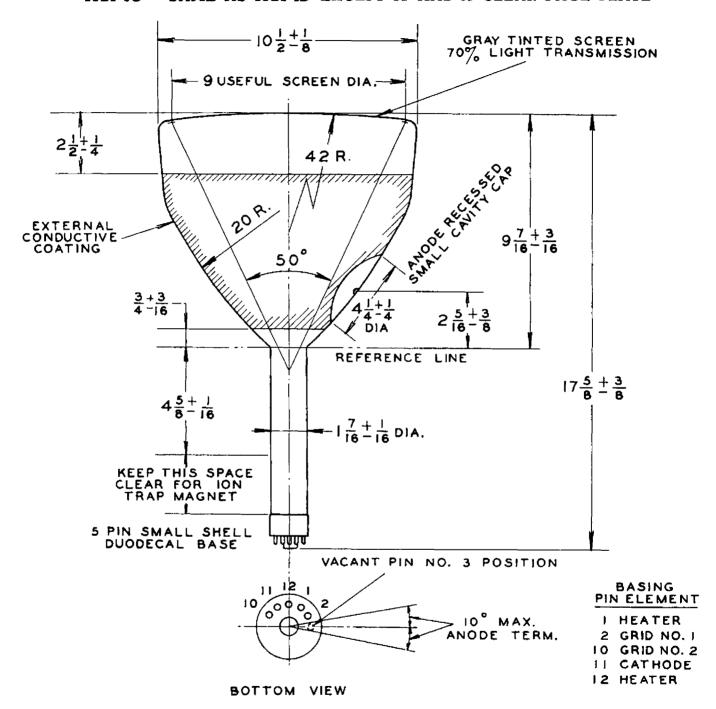
# Sheldon TYPE 10BP4D

# 10BP4C - SAME AS 10BP4D 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 10BP4D

# 10" 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.

## 10BP4C - SAME AS 10BP4D EXCEPT IT HAS A CLEAR FACE PLATE

ELECTRICAL	MAXIMUM RATINGS (Design Center Values)
Heater Voltage	Anode Voltage
Deflecting Method Magnetic Deflecting Angle 50 Approx. Deg. Phosphor No. 4 Fluorescence White Persistence Medium	ORID NO. 1 VOLTAGE  Negative-Bias Value
External Conductive Coating  To Anode No. 2	PEAK HEATER CATHODE VOLTAGE  Heater Negative with respect to cathode  (Note 1)125 Max. Volts. D-C
DIRECT INTERELECTRODE CAPACITANCES.  Cathode to all other electrodes 5.0 uuf	Heater Positive with respect to cathode 125 Max. Volts. D-C
Grid No. 1 to all other electrodes 6.0 uuf	JETEC COMPARATIVE CONDITIONS
MECHANICAL	Anode Voltage9,000 Volts D-C
Overall Length	Grid No. 2 Voltage250 Volts D-C
Greatest Diameter of Bulb	Grid No. 1 Voltage (Note 2)  - 27 to - 63 Volts D-C  Focusing Coil Current (Note 3)  110 Approx. Milliamperes D-C  Ion Trap Current (Note 4)  85 Approx. Milliamperes D-C
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 20 foot lamberts on a 6" x 8" 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.