

TUNG-SOL

CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION

GLASS BULB

SMALL SHELL DUCDECAL 7 PIN BASE

THE 10BP4A IS A MAGNETIC FOCUS AND MAGNETIC DEFLECTION DIRECT VIEW PICTURE TUBE FOR TELEVISION RECEIVERS. IT HAS A GREY NEUTRAL-DENSITY FACEPLATE FOR INCREASED PICTURE CONTRAST AND DETAIL UNDER HIGH AMBIENT LIGHT CONDITIONS. THE ELECTRON GUN IS DESIGNED TO BE USED WITH AN EXTERNAL ION-TRAP MAGNET.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTION AND FOCUSING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.)	50 DEGREES
ION TRAP	MAGNETIC
EXTERNAL COATING	CONDUCTIVE

DIRECT INTERELECTRODE CAPACITANCES

GRID #1 TO ALL OTHER ELECTRODES: G_1 TO $(H+K+G_2+A+G_3)$	6.5	μf
CATHODE TO ALL OTHER ELECTRODES: K TO $(H+K+G_2+A+G_3)$	5.0	μf
EXTERNAL CONDUCTIVE COATING TO ANODE #2	2500 MAX., 500 MIN.	μf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD W8-210

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
MAXIMUM ANODE VOLTAGE ($A+G_3$)	10 000	VOLTS
MAXIMUM GRID #2 VOLTAGE	410	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
NEGATIVE BIAS VOLTAGE	125	VOLTS
POSITIVE BIAS VOLTAGE	0	VOLTS
POSITIVE PEAK VOLTAGE	2	VOLTS
PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEG. WITH RESPECT TO CATHODE DURING		
EQUIPMENT WARMING UP PERIOD NOT EXCEEDING 15 SEC.	410	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	125	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	125	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

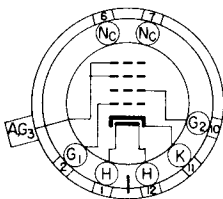
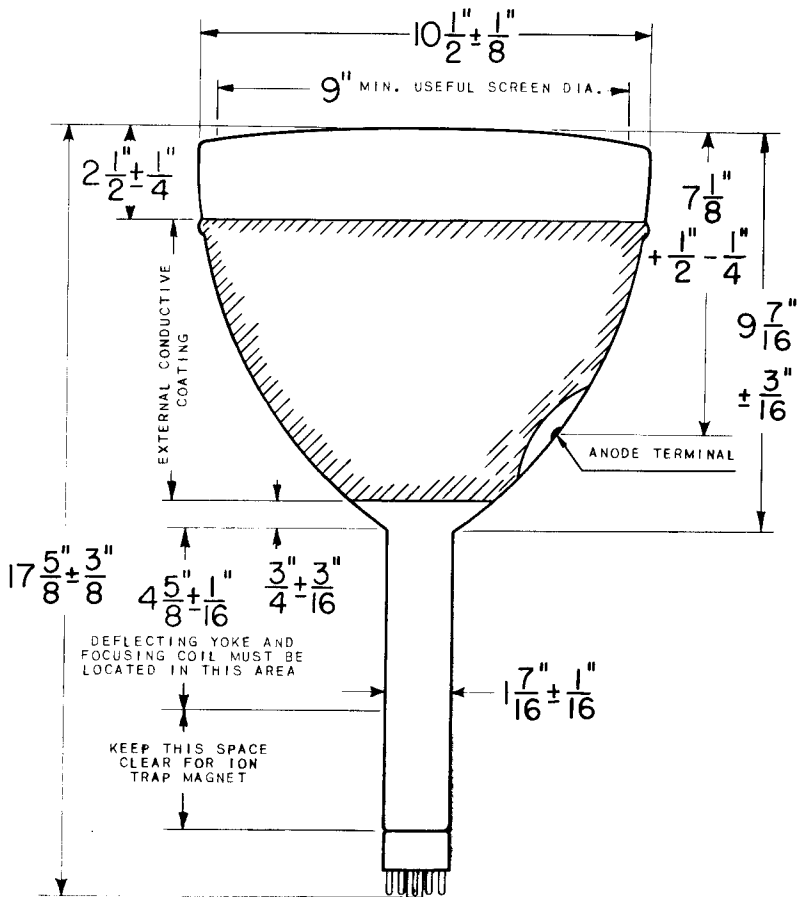
ANODE VOLTAGE	9 000	VOLTS
GRID #2 VOLTAGE	250	VOLTS
GRID #1 VOLTAGE (VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.)	-27 TO -63	VOLTS
FOCUSING COIL CURRENT	110	MA.
ION TRAP CURRENT	120	MA.

SIMILAR TYPE REFERENCE: The 10BP4A is identical to the 10FP4 except for the grey filter faceplate.

PRINTED IN U.S.A.

PLATE
2402
MAY 1
1950

TUNG-SOL



- 1. HEATER
- 2. GRID NO. 1
- 6. NO CONNECTION
- 7. NO CONNECTION
- 10. GRID NO. 2
- 11. CATHODE
- 12. HEATER
- CAP ANODE, GRID NO. 3

PLATE
2403
MAY 1
1950