TUNG-SOL

CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION

GLASS BULB

SMALL SHELL DUODECAL 7 PIN BASE

THE 10BP4 IS AN ELECTROMAGNETIC CATHODE RAY TUBE INTENDED FOR DIRECT VIEW TELEVISION USE. IT PROVIDES A BLACK AND WHITE 6" BY 8" PICTURE OF GOOD DEFINITION. THIS TUBE USES MAGNETIC FOCUS AND DEFLECTION. IT REQUIRES THE USE OF AN EXTERNAL ION-TRAP MAGNET TO ELIMINATE SCREEN BLEMISHES.

DESCRIPTION

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

DIRECT INTERELECTRODE CAPACITANCES

GRID #4 TO ALL OTHER ELECTRODES: $g_4$ TO $(h+k+g_2+a+g_3) \quad 6.5 \ \mu\text{f}

CATHODE TO ALL OTHER ELECTRODES: $k$ TO $(h+k+g_2+a+g_3) \quad 5.0 \ \mu\text{f}

EXTERNAL CONDUCTIVE COATING TO ANODE #2 2500 MAX, 500 MIN. \ \mu\text{f}

RATINGS

INTERPRETED ACCORDING TO NMA STANDARD M8-210

HEATER VOLTAGE 6.3 VOLTS
HEATER CURRENT 0.6 AMP.
MAXIMUM ANODE VOLTAGE $(a+g_3) \quad 10000 \ \text{VOLS}
MAXIMUM GRID #2 VOLTAGE 410 VOLTS
MAXIMUM GRID #4 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 9000 VOLTS
GRID #2 VOLTAGE 250 VOLTS
GRID #4 VOLTAGE (VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.) -27 TO -63 VOLTS

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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
$E_f = 6.3 \text{ Volts}$
$\text{Anode} = 9000 \text{ Volts}$
$E_{c2} = 250 \text{ Volts}$

- Highlight Brightness
- Anode Current