TUNG-SOL

CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC

RECTANGULAR GLASS BULB

SMALL SHELL DUODECAL 5 PIN BASE

THE 14BP4 IS AN ALL GLASS MAGNETIC FOCUS AND DEFLECTION DIRECT-VIEW PICTURE TUBE FOR TELEVISION APPLICATION. ITS RECTANGULAR FACE PROVIDES FOR A PICTURE 8 5/8" X 11 5/8". FEATURES OF THIS TUBE ARE AN ELECTRON GUN DESIGNED TO BE USED WITH AN EXTERNAL ION-TRAP MAGNET FOR THE PREVENTION OF ION-SPOT BLEMISH, A GREY NEUTRAL-DENSITY FACEPLATE FOR INCREASED PICTURE CONTRAST AND DETAIL UNDER HIGH AMBIENT LIGHT CONDITIONS AND A SPACE-SAVING RECTANGULAR BULB SHAPE. AN EXTERNAL CONDUCTIVE COATING SERVES AS A FILTER CAPACITOR WHEN GROUNDED.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTING AND FOCUSING METHOD	MAGNETIC
DEFLECTING ANGLE (APPROX.):	
HORIZONTAL	70 DEGREES
DIAGONAL	65 DEGREES
FACEPLATE LIGHT TRANSMISSION (NEUTRAL DENSITY FILTER)	70 PERCENT
BULB CONTACT	RECESSED SMALL CAVITY CAP
COATING	CONDUCTIVE

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

EXTERNAL CONDUCTIVE COATING	500 - 2000	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
MAXIMUM ANODE VOLTAGE	12 000	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
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE:		
DURING WARM-UP PERIOD NOT EXCEEDING 15 SECONDS	410	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	125	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	125	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

ANODE VOLTAGE	11 000	VOLTS
GRID #2 VOLTAGE	250	VOLTS
GRID #1 VOLTAGE (VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT)	-27 TO -63	VOLTS
FOCUSING COIL CURRENT (APPROX.)	110	MA.
ION TRAP CURRENT (APPROX.)	120	MA.

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14BP4

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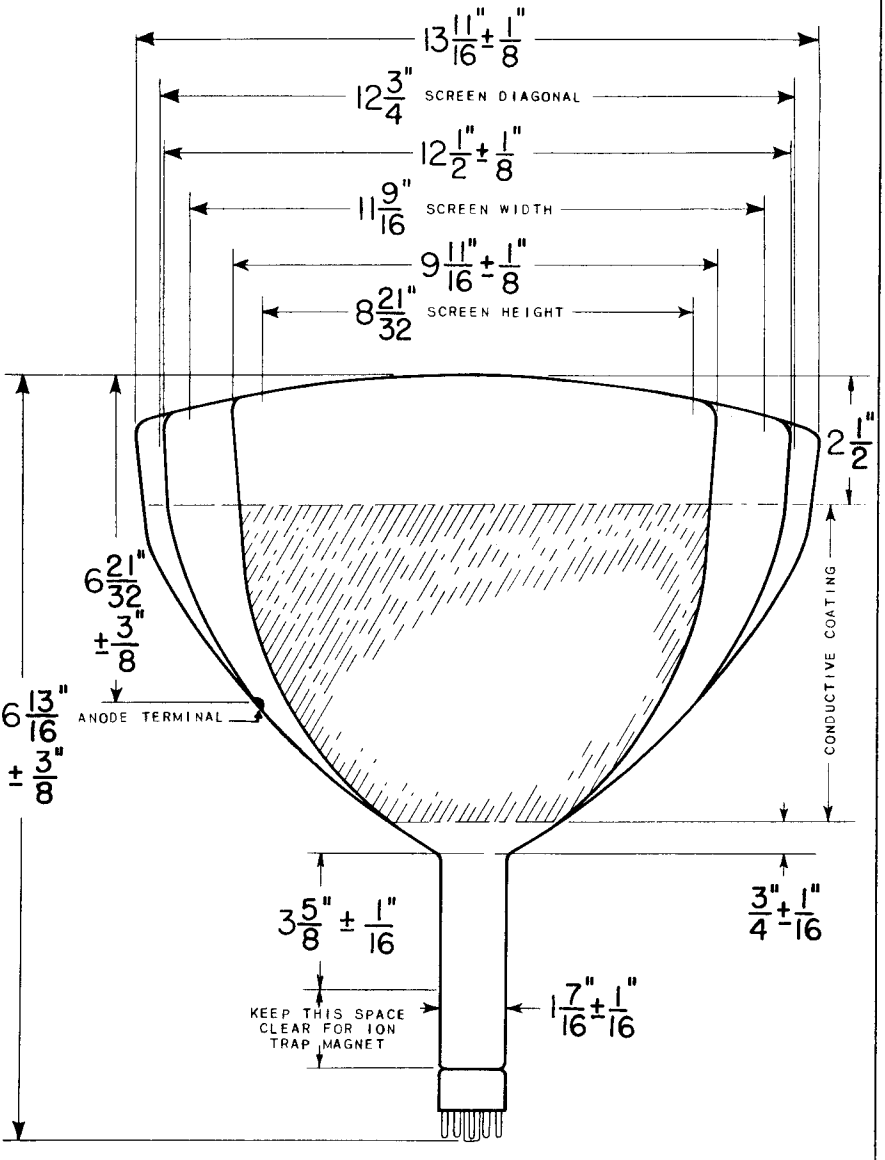
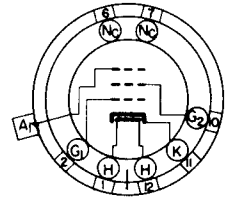


1. HEATER
2. GRID NO. 1
10. GRID NO. 2
11. CATHODE
12. HEATER
CAP ANODE



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