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 14CP4 IS AN ALL GLASS MAGNETIC FOCUS AND DEFLECTION DIRECT VIEW PICTURE TUBE FOR TELEVISION APPLICATIONS. ITS RECTANGULAR FACE PROVIDES FOR A PICTURE 8 5/8" X 11 1/2". FEATURES OF THIS TUBE ARE A SPACE-SAVING RECTANGULAR BULB, A GREY NEUTRAL-DENSITY FACEPLATE FOR INCREASED PICTURE CONTRAST AND DETAIL UNDER HIGH AMBIENT LIGHT CONDITIONS, AND AN ELECTRON GUN DESIGNED TO BE USED WITH AN EXTERNAL ION-TRAP MAGNET FOR THE PREVENTION OF ION-SPOT BLEMISH.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTING AND FOCUSING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.):	
HORIZONTAL	65 DEGREES
VERTICAL	70 DEGREES
ION-TRAP	MAGNETIC
BULB CONTACT	RECESSED SMALL CAVITY CAP
COATING	CONDUCTIVE

DIRECT INTERELECTRODE CAPACITANCES – APPROX.

GRID #1 TO ALL OTHER ELECTRODES	6	μμf
CATHODE TO ALL OTHER ELECTRODES	5	μμf
EXTERNAL CONDUCTIVE COATING TO ANODE (APPROX.)	1500	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
MAXIMUM ANODE VOLTAGE	14 000	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 NEGATIVE WITH RESPECT TO CATHODE:		
DURING EQUIPMENT WARM-UP PERIOD NOT EXCEEDING 15 SECONDS	410	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	150	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	150	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

ANODE VOLTAGE	12 000	VOLTS
GRID #2 VOLTAGE	300	VOLTS
GRID #1 VOLTAGE (VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT)	-33 TO -77	VOLTS
FOCUSING COIL CURRENT (APPROX.)	115	MA.
ION-TRAP FIELD INTENSITY (APPROX.)[A]	23	GAUSS

[A] SINGLE FIELD ION-TRAP MAGNET

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14CP4

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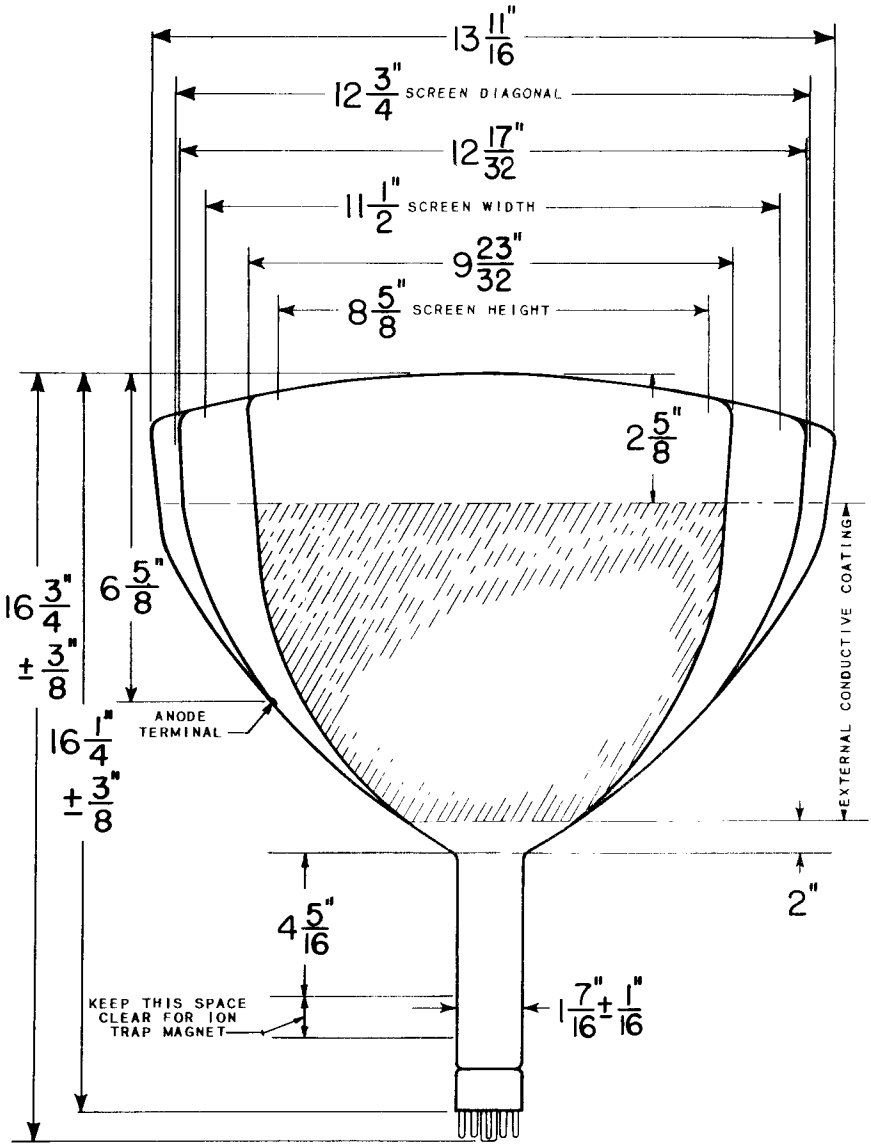

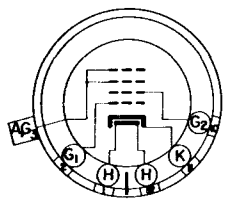

1. HEATER
2. GRID #1
10. GRID #2
11. CATHODE
12. HEATER
CAP ANODE, GRID #3

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