

TUNG-SOL

CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION

RECTANGULAR GLASS BULB

SMALL SHELL DUODECAL 5 PIN BASE

THE 14EP4 IS A GLASS ENVELOPE, MAGNETIC DEFLECTION AND MAGNETIC FOCUS DIRECT-VIEW PICTURE TUBE INTENDED FOR USE IN TELEVISION RECEIVERS. FEATURES OF THIS TUBE ARE THE 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. AN EXTERNAL CONDUCTIVE COATING WHEN GROUNDED SERVES AS A HIGH VOLTAGE FILTER CAPACITOR.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTING AND FOCUSING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.):	
HORIZONTAL	65 DEGREES
DIAGONAL	70 DEGREES
FACEPLATE LIGHT TRANSMISSION (NEUTRAL DENSITY FILTER)	66 PERCENT
COATING	CONDUCTIVE
BULB CONTACT	RECESSED SMALL CAVITY CAP
RASTER SIZE	11 1/2" X 8 5/8"

DIRECT INTERELECTRODE CAPACITANCES — APPROX.

GRID #1 TO ALL OTHER ELECTRODES	6	μf
CATHODE TO ALL OTHER ELECTRODES	5	μf
EXTERNAL CONDUCTIVE COATING TO ANODE	1 250	μf

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
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE:		
DURING EQUIPMENT WARM-UP PERIOD		
NOT EXCEEDING 45 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

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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.)	110 $\pm$ 20%	MA.
ION-TRAP CURRENT (APPROX.) ^A	110 $\pm$ 50%	MA.
HORIZONTAL DEFLECTING COIL CURRENT (APPROX.)	750	MA.

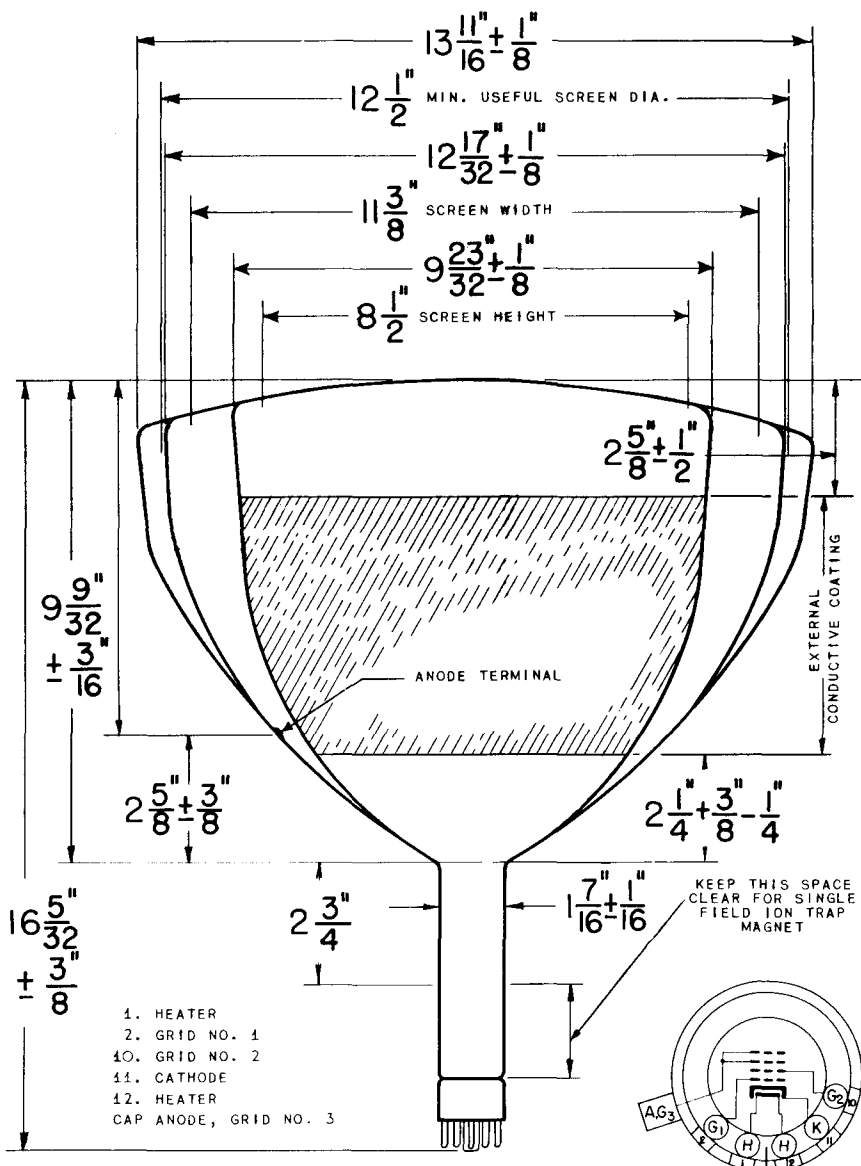
^A SINGLE FIELD ION-TRAP MAGNET.

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