

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 5 PIN BASE

THE 15CP4 IS AN ELECTROMAGNETIC CATHODE RAY TUBE INTENDED FOR DIRECT VIEW TELEVISION USE. IT PROVIDES A BLACK AND WHITE PICTURE OF GOOD DEFINITION APPROXIMATELY 9" X 12". THIS TUBE USES MAGNETIC FOCUS AND DEFLECTION. IT REQUIRES THE USE OF AN EXTERNAL ION-TRAP MAGNET TO ELIMINATE ION-SPOT BLEMISH.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTING AND FOCUSING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.)	50 DEGREES
ION-TRAP	MAGNETIC
BULB CONTACT	RECESSED SMALL CAVITY

DIRECT INTERELECTRODE CAPACITANCES

GRID #1 TO ALL OTHER ELECTRODES	6.5	$\mu\mu\text{f}$
CATHODE TO ALL OTHER ELECTRODES	5	$\mu\mu\text{f}$

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
MAXIMUM ANODE VOLTAGE	15 000	VOLTS
MAXIMUM GRID #2 VOLTAGE	410	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
NEGATIVE BIAS VOLTAGE	125	VOLTS
POSITIVE BIAS VOLTAGE	2	VOLTS
PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	125	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	125	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEG OHM

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→INDICATES A CHANGE OR ADDITION.

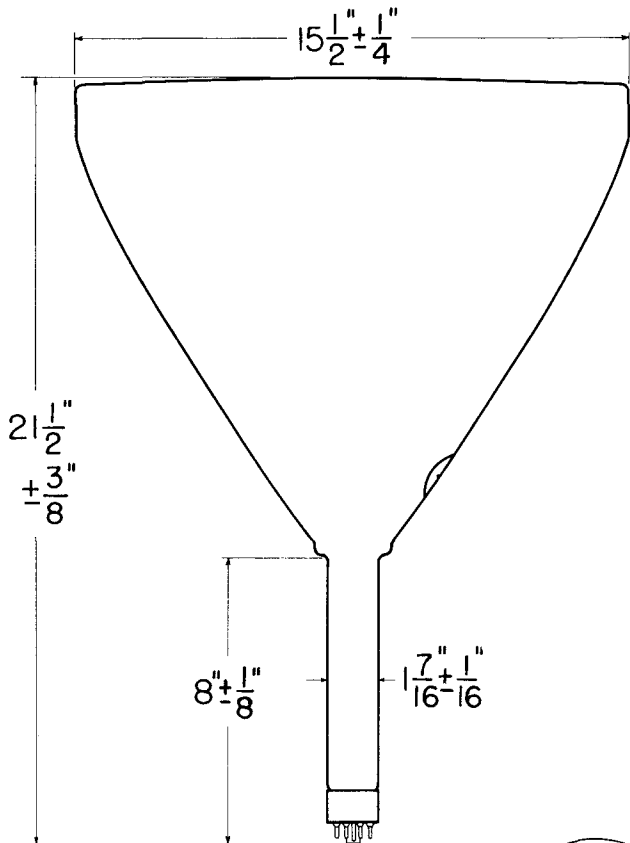
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

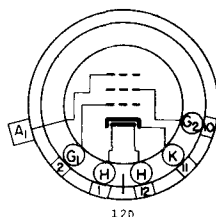
ANODE VOLTAGE ^A	9 000 to 15 000	VOLTS
GRID #2 VOLTAGE	250+	VOLTS
GRID #1 VOLTAGE	-45	VOLTS
DC FOCUSING COIL CURRENT ($\pm 15\%$)	115	MA.
DC ION-TRAP MAGNET CURRENT (APPROX.)	109	MA.

^A BRILLIANCE AND DEFINITION DECREASE WITH DECREASING ANODE VOLTAGE. IN GENERAL, ANODE VOLTAGE SHOULD NOT BE LESS THAN 9000 VOLTS.

^B BRILLIANCE AND DEFINITION DECREASE WITH DECREASING GRID #2 VOLTAGE. IN GENERAL, GRID #2 VOLTAGE SHOULD NOT BE LESS THAN 125 VOLTS.



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



120

PLATE
2532
DEC. 1
1950