

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 | μμf |
| CATHODE TO ALL OTHER ELECTRODES | 5 | μμf |

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-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.

TUNG-SOL

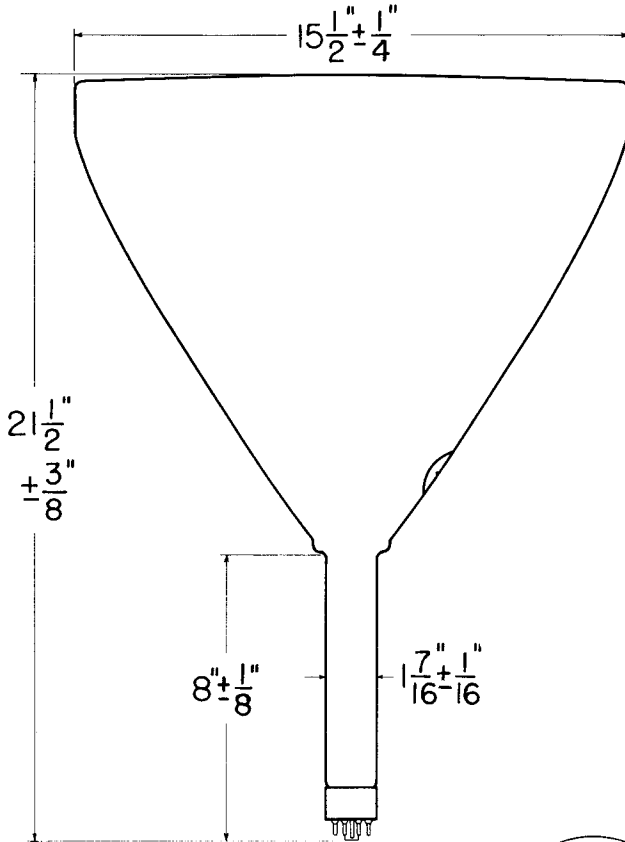
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

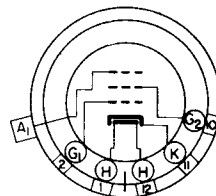
| | | |
|---|-----------------|-------|
| ANODE VOLTAGE ^A | 9 000 to 15 000 | VOLTS |
| GRID #2 VOLTAGE | 250+ | VOLTS |
| GRID #1 VOLTAGE | -45 | VOLTS |
| DC FOCUSING COIL CURRENT ($\pm 15\%$) | 115 | MA. |
| DC ION-TRAP MAGNET CURRENT (APPROX.) | 109 | MA. |

^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