

## 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 | $\mu\text{uf}$ |
| CATHODE TO ALL OTHER ELECTRODES | 5   | $\mu\text{uf}$ |

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD W8-210

|                                         |        |        |
|-----------------------------------------|--------|--------|
| 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    | MEGOHM |

CONTINUED ON FOLLOWING PAGE

→INDICATES A CHANGE OR ADDITION.

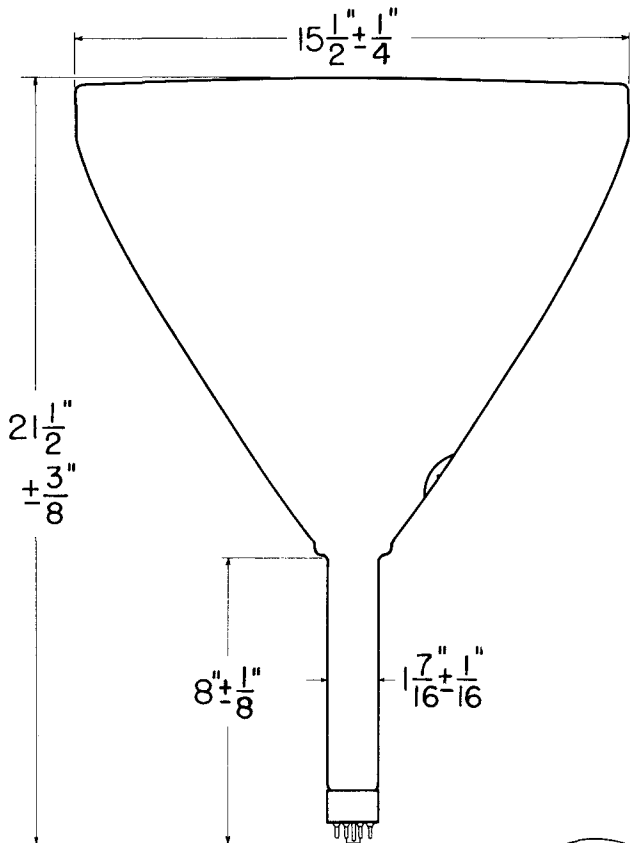
CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

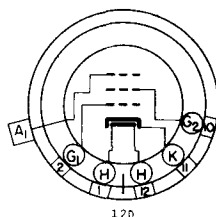
|                                         |                 |       |
|-----------------------------------------|-----------------|-------|
| ANODE VOLTAGE <sup>A</sup>              | 9 000 to 15 000 | VOLTS |
| GRID #2 VOLTAGE                         | 250+            | VOLTS |
| GRID #1 VOLTAGE   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

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

<sup>B</sup> 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