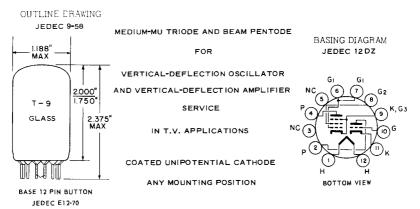
PENTODE SECTION

OUTPUT: P TO ( H + K )

# TUNG-SOL

## TRIODE-PENTODE

#### COMPACTRON



THE 6JZ8 IS A MEDIUM - MU TRIODE AND A BEAM PENTODE IN THE 12 PIN COMPACTRON CON-STRUCTION, THE TRIODE IS DESIGNED FOR SERVICE AS A VERTICAL-DEFLECTION OSCILLATOR AND THE PENTODE AS A VERTICAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS.

# DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE (g TO p) 0.34 pf INPUT: G1 TO ( H + K + G2+ G3 ) 11 pf OUTPUT: PTO (H+K+G2+G3) 7.0 pf TRIODE SECTION 3.6 pf GRID TO PLATE ( G TO P ) 2,2 pf INPUT: G TO (H+K) 0.7 pf

CONTINUED ON FOLLOWING PAGE

# TUNG-SOL -

#### CONTINUED FROM PRECEDING PAGE

## **HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUE - SEE EIA STANDARD RS-239

| AVERAGE CHARACTERISTICS                 | 6.3 | VOLTS | 1,200     | MA    |
|---|-----|-------|-----------|-------|
| LIMITS OF APPLIED VOLTAGE               |     |       | 6.3 ± 0.6 | VOLTS |
| HEATER-CATHODE VOLTAGE:                 |     |       |           |       |
| DC COMPONENT                            |     |       | 100       | VOLTS |
| TOTAL DC AND PEAK                       |     |       | 200       | VOLTS |
| HEATER NEGATIVE WITH RESPECT TO CATHODE |     |       |           |       |
| TOTAL DC AND PEAK                       |     |       | 200       | VOLTS |

# MAXIMUM RATINGS DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

|                              | TRIODE<br>SECTION<br>VERTICAL<br>OSCILLATOR A<br>SERVICE | PENTODE<br>SECTION<br>VERTICAL<br>DEFLECTION A<br>AMPLIFIER<br>SERVICE |         |
|------------------------------|--|--|---------|
| PLATE VOLTAGE - DC           | 250  | 250  | VOLTS   |
| PEAK PULSE PLATE VOLTAGE     |  | 2,000  | VOLTS   |
| GRID 2 VOLTAGE               |  | 200  | VOLTS   |
| PEAK NEGATIVE GRID 1 VOLTAGE | 400  | 150  | VOLTS   |
| PLATE DISSIPATION            | 1.0  | 7.0 B  | WATTS   |
| GRID 2 DISSIPATION           |  | 1.8  | WATTS   |
| CATHODE CURRENT - DC         | <b>2</b> 0   | 70   | MA      |
| PEAK CATHODE CURRENT         | 70   | 245  | MA      |
| GRID 1 CIRCUIT RESISTANCE    |  |  |         |
| WITH FIXED BIAS              | 1.0  | 1.0  | MEGOHMS |
| WITH CATHODE BIAS            | 2.0  | 2.0  | MEGOHMS |
|                              |  |  |         |

- A FOR OPERATION IN A 525 LINE, 30 FRAME TELEVISION SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE CONCERNING BROADCAST STATIONS", FEDERAL COMMUNICATIONS COMMISSION. THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.
- B IN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE-BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE.

CONTINUED ON FOLLOWING PAGE

# CHARACTERISTICS AND TYPICAL OPERATION

|  | TRIODE SECTION | PENTODE SECTION |             |            |
|--|----------------|-----------------|-------------|------------|
| PLATE VOLTAGE  | 150            | 45              | 120         | VOLTS      |
| GRID 2 VOLTAGE   |                | 110             | 110         | VOLTS      |
| GRID 1 VOLTAGE   | -5.0           | 0 C             | -8.0        | VOLTS      |
| PLATE CURRENT  | 5.5            | 122             | 46          | MA         |
| GRID 2 CURRENT   |                | 16.5            | 3.5         | MA         |
| AMPLIFICATION FACTOR                                   | 20             |                 |             |            |
| TRANSCONDUCTANCE                                       | 2,350          |                 | 7,100       | $\mu$ MHOS |
| PLATE RESISTANCE - APPROX.                             | 8,5            |                 | 11.7        | KOHMS      |
| GRID 1 VOLTAGE FOR I <sub>b</sub> = 10 $\mu$ A APPROX. | -11            |                 | <b>-</b> 25 | VOLTS      |

C APPLIED FOR SHORT INTERVAL ( 2 SECONDS ) SO AS NOT TO DAMAGE TUBE.