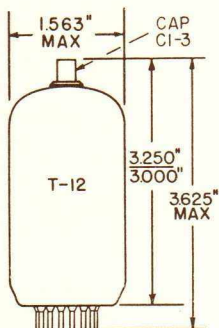


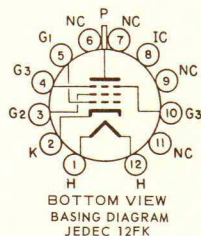
## TUNG-SOL

PENTODE  
COMPACTRON

GLASS BULB  
12 PIN BASE E12-74  
OUTLINE DRAWING  
JEDEC 12-56

BEAM PENTODE  
FOR  
HORIZONTAL-DEFLECTION  
AMPLIFIER APPLICATIONS  
IN TV RECEIVERS

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION



THE 6JM6 IS A BEAM-POWER PENTODE IN THE T-12 COMPACTRON CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. A SEPARATE CONNECTION IS PROVIDED FOR THE BEAM PLATES ( GRID 3 ) TO MINIMIZE "SNIVETS"

EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 6JM6 IS IDENTICAL TO THE 17JM6.

#### DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

|                                  |      |    |
|----------------------------------|------|----|
| GRID 1 TO PLATE: G1 TO P         | 0.34 | pf |
| INPUT: G1 TO ( H + K + G2 + G3 ) | 16   | pf |
| OUTPUT: P TO ( H + K + G2 + G3 ) | 7.0  | pf |

#### HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                                   |           |           |       |
|-----------------------------------|-----------|-----------|-------|
| AVERAGE CHARACTERISTICS           | 6.3 VOLTS | 1.2       | AMPS. |
| LIMITS OF APPLIED VOLTAGE         |           | 6.3 ± 0.6 | VOLTS |
| MAXIMUM HEATER - CATHODE VOLTAGE: |           |           |       |
| HEATER NEG. W/ RESPECT TO CATHODE |           |           |       |
| TOTAL DC AND PEAK                 |           | 200       | VOLTS |
| HEATER POS. W/ RESPECT TO CATHODE |           |           |       |
| DC                                |           | 100       | VOLTS |
| TOTAL DC AND PEAK                 |           | 200       | VOLTS |

CONTINUED ON FOLLOWING PAGE

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MAXIMUM RATINGS

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239  
HORIZONTAL-DEFLECTION AMPLIFIER SERVICE

|                                                        |       |         |
|--------------------------------------------------------|-------|---------|
| DC PLATE - SUPPLY VOLTAGE ( BOOST + DC POWER SUPPLY ). | 770   | VOLTS   |
| PEAK POSITIVE PULSE PLATE VOLTAGE                      | 6,500 | VOLTS   |
| PEAK NEGATIVE PULSE PLATE VOLTAGE                      | 1,500 | VOLTS   |
| POSITIVE DC GRID 3 VOLTAGE                             | 70    | VOLTS   |
| GRID 2 VOLTAGE                                         | 220   | VOLTS   |
| NEGATIVE DC GRID 1 VOLTAGE                             | 55    | VOLTS   |
| PEAK NEGATIVE GRID 1 VOLTAGE                           | 330   | VOLTS   |
| PLATE DISSIPATION <sup>A</sup>                         | 17.5  | WATTS   |
| GRID 2 DISSIPATION                                     | 3.5   | WATTS   |
| DC CATHODE CURRENT                                     | 175   | MA.     |
| PEAK CATHODE CURRENT                                   | 550   | MA.     |
| GRID 1 CIRCUIT RESISTANCE                              | 1.0   | MEGOHMS |
| BULB TEMPERATURE AT HOTTEST POINT                      | 220   | ° C     |

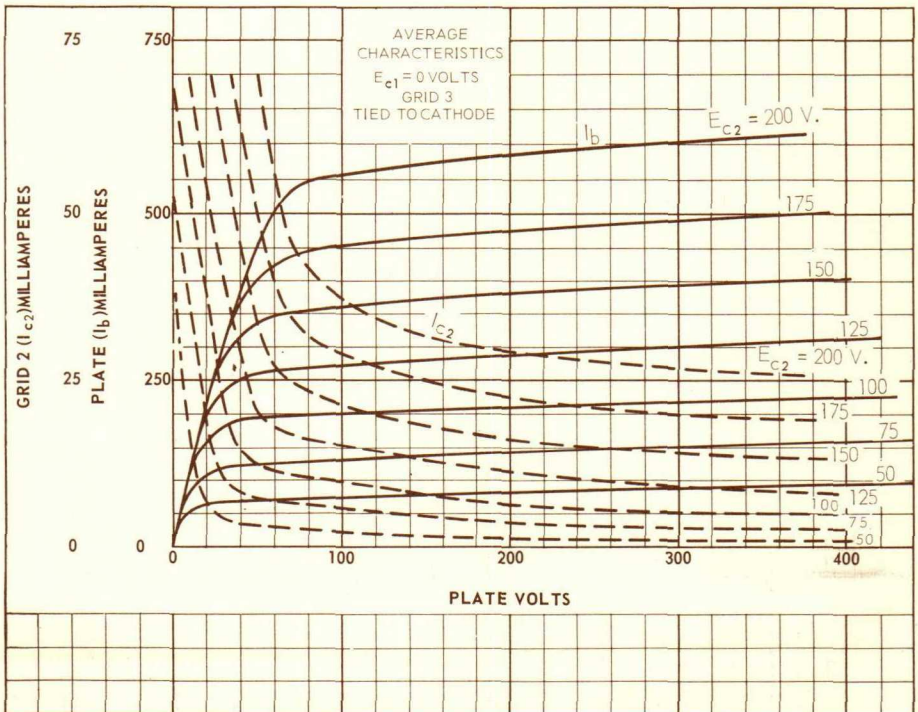
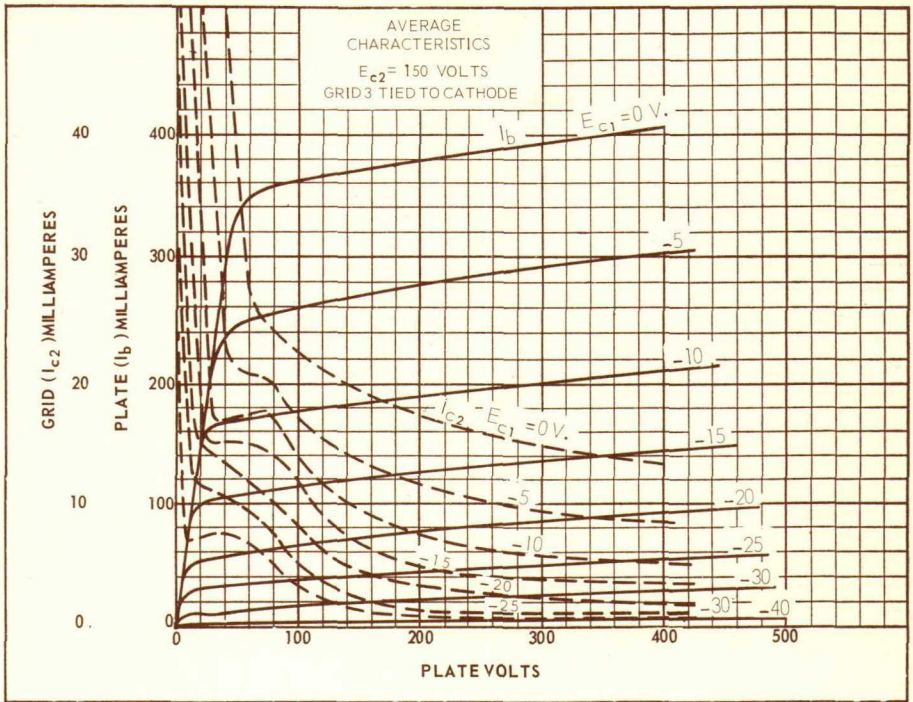
A - IN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE-BIAS RESISTOR OR OTHER SUIT-  
ABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

CHARACTERISTICS AND TYPICAL OPERATION

|                                             |       |                |        |       |
|---------------------------------------------|-------|----------------|--------|-------|
| PLATE VOLTAGE                               | 5,000 | 60             | 250    | VOLTS |
| GRID 3 - CONNECTED TO CATHODE AT SOCKET     |       |                |        |       |
| GRID 2 VOLTAGE                              | 150   | 150            | 150    | VOLTS |
| GRID 1 VOLTAGE                              | -     | 0 <sup>B</sup> | -22.5  | VOLTS |
| PLATE CURRENT                               | -     | 345            | 65     | MA.   |
| GRID 2 CURRENT                              | -     | 27             | 1.8    | MA.   |
| TRANSCONDUCTANCE                            | -     | -              | 7,300  | μMHOS |
| PLATE RESISTANCE - APPROX.                  | -     | -              | 18,000 | OHMS  |
| GRID 1 VOLTAGE AT $I_b = 1.0$ MA. - APPROX. | -100  | -              | -42    | VOLTS |
| TRIODE AMPLIFICATION FACTOR <sup>C</sup>    | -     | -              | 4.4    |       |

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

C - TRIODE CONNECTION ( GRID 2 TIED TO PLATE ) WITH  $E_b = E_{c2} = 150$  VOLTS AND  $E_{c1} = -22.5$  VOLTS



# 6JM6

