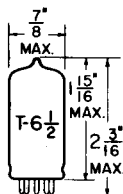


## TUNG-SOL

## DUOTRIODE

MINIATURE TYPE



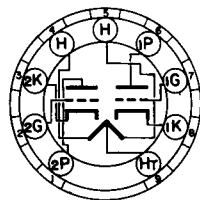
GLASS BULB

HEATER

| SERIES     | PARALLEL  |
|------------|-----------|
| 12.6 VOLTS | 6.3 VOLTS |
| 0.13 AMP.  | 0.26 AMP. |

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE  
9 PIN BASE

9A

THE 12DM7 IS A LOW-HUM HIGH-MU DUOTRIODE IN THE 9 PIN MINIATURE CONSTRUCTION. ITS HIGH AMPLIFICATION AND LOW-HUM MAKES THE 12DM7 PARTICULARLY ADAPTED FOR APPLICATION IN LOW LEVEL STAGES OF HIGH-FIDELITY AMPLIFIERS AND OTHER AUDIO EQUIPMENT.

## DIRECT INTERELECTRODE CAPACITANCES

|                        | SEC. #1 | SEC. #2 |         |
|------------------------|---------|---------|---------|
| GRID TO PLATE: G1 TO P | 1.7     | 1.7     | $\mu$ f |
| INPUT: G1 TO K+H       | 1.6     | 1.6     | $\mu$ f |
| OUTPUT: P TO K+H       | 0.46    | 0.34    | $\mu$ f |

## RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM  
EACH SECTION

|                                            |      |     |       |
|--------------------------------------------|------|-----|-------|
| HEATER VOLTAGE                             | 12.6 | 6.3 | VOLTS |
| MAXIMUM PLATE VOLTAGE                      | 330  |     | VOLTS |
| MAXIMUM CONTROL GRID VOLTAGE, NEGATIVE -DC | 50   |     | VOLTS |
| MAXIMUM CONTROL GRID VOLTAGE, POSITIVE -DC | 0    |     | VOLTS |
| MAXIMUM PLATE DISSIPATION                  | 1.1  |     | WATTS |
| MAXIMUM PEAK HEATER-CATHODE VOLTAGE:       |      |     |       |
| HEATER NEGATIVE TO CATHODE                 | 180  | 180 | VOLTS |
| HEATER POSITIVE TO CATHODE                 | 180  | 180 | VOLTS |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A AMPLIFIER

|                                         |      |      |            |
|-----------------------------------------|------|------|------------|
| HEATER VOLTAGE                          | 12.6 | 6.3  | VOLTS      |
| HEATER CURRENT                          | 0.13 | 0.26 | AMP.       |
| PLATE VOLTAGE                           | 100  | 250  | VOLTS      |
| CONTROL GRID VOLTAGE                    | -1   | -2   | VOLTS      |
| PLATE RESISTANCE (APPROX.)              | 80   | 62.5 | K OHMS     |
| TRANSCONDUCTANCE                        | 1250 | 1600 | $\mu$ MHOS |
| AMPLIFICATION FACTOR                    | 100  | 100  |            |
| PLATE CURRENT                           | 0.5  | 1.2  | MA.        |
| SIGNAL-TO-NOISE-RATION IN 630B R-C AMP. |      | 57db | DOWN       |