

## TUNG-SOL

## PENTODE

## MINIATURE TYPE

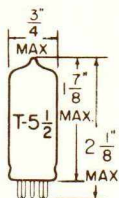
## COATED UNIPOTENTIAL CATHODE

## HEATER

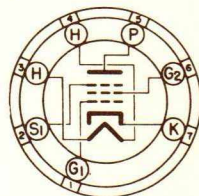
12.6 VOLTS 0.15AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB


 BOTTOM VIEW  
 MINIATURE BUTTON  
 7 PIN BASE

78K

THE 12BD6 IS A MINIATURE REMOTE-CUTOFF PENTODE DESIGNED FOR USE AS A RADIO-FREQUENCY OR INTERMEDIATE-FREQUENCY AMPLIFIER.

## DIRECT INTERELECTRODE CAPACITANCES

|                      | WITH SHIELD | WITHOUT SHIELD |                  |
|----------------------|-------------|----------------|------------------|
| GRID TO PLATE (MAX.) | 0.005       | 0.004          | $\mu\mu\text{f}$ |
| INPUT                | 4.3         | 4.3            | $\mu\mu\text{f}$ |
| OUTPUT               | 5.0         | 5.0            | $\mu\mu\text{f}$ |

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MG-210

## DESIGN CENTER VALUES

|                                         |      |       |
|-----------------------------------------|------|-------|
| HEATER VOLTAGE                          | 12.6 | VOLTS |
| MAXIMUM PEAK HEATER-CATHODE VOLTAGE:    |      |       |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | 90   | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE | 90   | VOLTS |
| MAXIMUM PLATE VOLTAGE                   | 300  | VOLTS |
| MAXIMUM GRID #2 VOLTAGE                 | 125  | VOLTS |
| MAXIMUM PLATE DISSIPATION               | 3.0  | WATTS |
| MAXIMUM GRID #2 DISSIPATION             | 0.4  | WATT  |
| MAXIMUM CATHODE CURRENT                 | 14   | MA.   |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

|                                                         |       |       |       |                                |
|---------------------------------------------------------|-------|-------|-------|--------------------------------|
| HEATER VOLTAGE                                          | 12.6  | 12.6  | 12.6  | VOLTS                          |
| HEATER CURRENT                                          | 0.15  | 0.15  | 0.15  | AMP.                           |
| PLATE VOLTAGE                                           | 100   | 125   | 250   | VOLTS                          |
| GRID #3 VOLTAGE                                         |       |       |       | CONNECTED TO CATHODE AT SOCKET |
| GRID #2 VOLTAGE                                         | 100   | 125   | 100   | VOLTS                          |
| GRID #1 VOLTAGE                                         | -1    | -3    | -3    | VOLTS                          |
| PLATE CURRENT                                           | 13    | 13    | 9     | MA.                            |
| GRID #2 CURRENT                                         | 5     | 5     | 3.0   | MA.                            |
| PLATE RESISTANCE                                        | 0.15  | 0.18  | 0.8   | MEGOHM                         |
| TRANSCONDUCTANCE                                        | 2 550 | 2 350 | 2 000 | $\mu\text{MHOS}$               |
| GRID VOLTAGE (APPROX.)<br>FOR $G_m = 10 \mu\text{MHOS}$ | -35   | -45   | -35   | VOLTS                          |

→ INDICATES A CHANGE.

\* INDICATES AN ADDITION.

