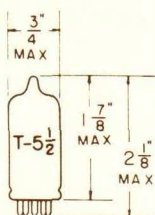


## TUNG-SOL

HI-MU TRIODE ←

MINIATURE TYPE



## GLASS BULB

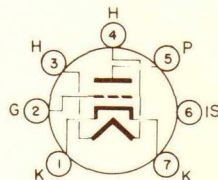
BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-2

COATED UNIPOTENTIAL CATHODE

HEATER

2.3 VOLTS 0.60 AMP.

ANY MOUNTING POSITION



## BOTTOM VIEW

BASING DIAGRAM  
JEDEC 7FP

THE 2ER5 IS A HIGH TRANSCONDUCTANCE SHIELDED TRIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED ESPECIALLY FOR USE IN V.H.F. TELEVISION TUNERS. SEPARATE CATHODE LEADS PROVIDE LOW LEAD INDUCTANCE AND THE INTERNAL SHIELD REDUCES DIRECT GRID TO PLATE CAPACITANCE. EXCEPT FOR HEATER RATINGS AND HEATER WARM-UP TIME, THE 2ER5 IS IDENTICAL TO THE 3ER5 AND THE 6ER5.

## DIRECT INTERELECTRODE CAPACITANCES

|                                           | WITHOUT SHIELD | WITH SHIELD |                  |
|-------------------------------------------|----------------|-------------|------------------|
| PLATE TO GRID                             | 0.38           | 0.36        | $\mu\mu\text{f}$ |
| GRID TO ALL OTHER ELECTRODES EXCEPT PLATE | 4.4            | 4.4         | $\mu\mu\text{f}$ |
| PLATE TO ALL OTHER ELECTRODES EXCEPT GRID | 3.0            | 4.0         | $\mu\mu\text{f}$ |
| GRID TO HEATER (MAX.)                     | 0.28           | 0.28        | $\mu\mu\text{f}$ |
| PLATE TO CATHODE                          | 0.24           | 0.20        | $\mu\mu\text{f}$ |
| GRID TO CATHODE                           | 3.1            | 3.1         | $\mu\mu\text{f}$ |
| CATHODE TO HEATER                         | 2.8            | 2.8         | $\mu\mu\text{f}$ |

## RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

|                                                       |        |         |
|-------------------------------------------------------|--------|---------|
| HEATER VOLTAGE                                        | 2.3    | VOLTS   |
| MAXIMUM PLATE VOLTAGE WITHOUT CURRENT                 | 550    | VOLTS   |
| MAXIMUM PLATE VOLTAGE                                 | 250    | VOLTS   |
| MAXIMUM PLATE DISSIPATION                             | 2.2    | WATTS   |
| MAXIMUM CATHODE CURRENT                               | 20     | MAMPS   |
| MAXIMUM NEGATIVE GRID VOLTAGE                         | 50     | VOLTS   |
| MAXIMUM VOLTAGE BETWEEN CATHODE AND HEATER            | 100    | VOLTS   |
| MAXIMUM GRID CIRCUIT RESISTANCE                       | 1      | MEG OHM |
| MAXIMUM CIRCUIT RESISTANCE BETWEEN CATHODE AND HEATER | 20 000 | OHMS    |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

|                                                        |      |      |                  |
|--------------------------------------------------------|------|------|------------------|
| HEATER VOLTAGE                                         | 2.3  | 2.3  | VOLTS            |
| HEATER CURRENT                                         | 0.60 | 0.60 | AMP.             |
| PLATE VOLTAGE                                          | 200  |      | VOLTS            |
| GRID VOLTAGE                                           | -1.2 | -3.8 | -5.6             |
| PLATE CURRENT                                          | 10   |      | MAMPS            |
| TRANSCONDUCTANCE                                       | 500  | 500  | 100              |
| AMPLIFICATION FACTOR                                   | 80   |      | $\mu\text{MHOS}$ |
| GRID VOLTAGE FOR A CROSS-MODULATION FACTOR OF 1% (RMS) | 100  | 100  | 100              |
|                                                        |      |      | MV.              |