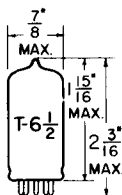


## TUNG-SOL

## DOUBLE TRIODE

MINIATURE TYPE



GLASS BULB

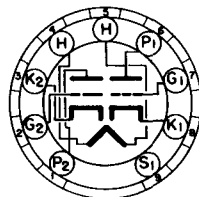
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.4 AMP.

AC OR DC

ANY MOUNTING POSITION


 BOTTOM VIEW  
 MINIATURE BUTTON  
 9 PIN BASE

9A4

THE 6BZ7 IS A MEDIUM MU DOUBLE TRIODE USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE IN LOW NOISE VHF CASCODE AMPLIFIER APPLICATIONS.

## → DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD #315

|                                                   | TRIODE<br>UNIT #1 | TRIODE<br>UNIT #2 |    |
|---------------------------------------------------|-------------------|-------------------|----|
| GRID TO PLATE: (G TO P)                           | 1.2               | 1.2               | μf |
| PLATE TO CATHODE: (P TO K)                        | 0.12              | 0.12              | μf |
| HEATER TO CATHODE: (H TO K)                       | 2.6               | 2.6               | μf |
| #1 INPUT: G TO (H+K+I.S.)                         | 2.6               | ---               | μf |
| #2 INPUT: K TO (H+G+I.S.) *                       | ---               | 5.0               | μf |
| #1 OUTPUT: P TO (H+K+I.S.)                        | 1.2               | ---               | μf |
| #2 OUTPUT: P TO (H+G+I.S.) *                      | ---               | 2.2               | μf |
| #1 PLATE TO #2 PLATE: (1P TO 2P) (MAX.)           |                   | 0.010             | μf |
| #2 PLATE TO #1 PLATE & GRID: (2P TO 1P+1G) (MAX.) |                   | 0.024             | μf |

\* READ AS GROUNDED GRID AMPLIFIER.

## RATINGS

 INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM  
 EACH TRIODE UNIT

|                                             |     |        |
|---------------------------------------------|-----|--------|
| HEATER VOLTAGE                              | 6.3 | VOLTS  |
| MAXIMUM HEATER-CATHODE VOLTAGE              |     |        |
| HEATER NEGATIVE WITH RESPECT TO CATHODE: ** |     |        |
| TOTAL DC AND PEAK                           | 200 | VOLTS  |
| HEATER POSITIVE WITH RESPECT TO CATHODE:    |     |        |
| DC                                          | 100 | VOLTS  |
| TOTAL DC AND PEAK                           | 200 | VOLTS  |
| MAXIMUM PLATE VOLTAGE **                    | 250 | VOLTS  |
| MAXIMUM PLATE DISSIPATION                   | 2   | WATTS  |
| MAXIMUM CATHODE CURRENT                     | 20  | MA.    |
| MAXIMUM GRID CIRCUIT RESISTANCE             | 0.5 | MEGOHM |

\*\* THIS RATING MAY BE AS HIGH AS 300 VOLTS UNDER CUTOFF CONDITIONS, WHEN THE TUBE IS USED AS A CASCODE AMPLIFIER AND THE TWO SECTIONS ARE CONNECTED IN SERIES.

—M— INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS  
CLASS A<sub>1</sub> AMPLIFIER — EACH TRIODE UNIT

|                                                    |         |       |
|----------------------------------------------------|---------|-------|
| HEATER VOLTAGE                                     | 6.3     | VOLTS |
| HEATER CURRENT                                     | 0.4     | AMP.  |
| PLATE VOLTAGE                                      | 150     | VOLTS |
| CATHODE BIAS RESISTOR                              | 220     | OHMS  |
| AMPLIFICATION FACTOR                               | 36      |       |
| PLATE RESISTANCE                                   | → 5 300 | OHMS  |
| TRANSCONDUCTANCE                                   | 6 800   | μMHOS |
| PLATE CURRENT                                      | 10      | MA.   |
| GRID VOLTAGE FOR I <sub>b</sub> = 100 μA (APPROX.) | → -7    | VOLTS |