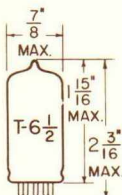


## TUNG-SOL

## DOUBLE TRIODE

MINIATURE TYPE



GLASS BULB

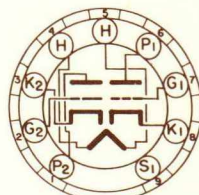
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.4 AMP.

AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**  
MINIATURE BUTTON  
9 PIN BASE  
9AU

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

\* 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.

→ 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 |