

## TUNG-SOL

## TRIODE-PENTODE AMPLIFIER

## PHYSICAL SPECIFICATIONS

| EMITTER UNIPOTENTIAL CATHODE   | PIN CONNECTIONS    |                      |
|--------------------------------|--------------------|----------------------|
| BASE INTERMEDIATE-8 PIN OCTAL  | PIN 1 PENT.CATH.*  | PIN 7 PENT.HEATER    |
| CAP SKIRTED MINIATURE-STYLE C  | PIN 2 TRIODE HTR.  | PIN 8 TRIODE GRID    |
| BULB T-9                       | PIN 3 PENT.PLATE   |                      |
| MAXIMUM DIAMETER 1 5/16"       | PIN 4 PENT.GRID #2 |                      |
| MAXIMUM OVERALL LENGTH 3 5/16" | PIN 5 TRIODE PLATE | TOP CAP PENT.GRID #1 |
| MAXIMUM SEATED HEIGHT 2 3/4"   | PIN 6 TRIODE CATH. |                      |

\*AND GRID #3

## RATINGS

|                                       |      |       |
|---------------------------------------|------|-------|
| HEATER OR FILAMENT VOLTAGE (AC OR DC) | 25   | VOLTS |
| HEATER OR FILAMENT CURRENT            | 0.15 | AMP.  |

## DIRECT INTERELECTRODE CAPACITANCES

|                                      | PENTODE | TRIODE |                  |
|--------------------------------------|---------|--------|------------------|
| CONTROL GRID TO CATHODE              | 5.5     | 5.0    | $\mu\mu\text{f}$ |
| PLATE TO CATHODE                     | 10.0    | 4.6    | $\mu\mu\text{f}$ |
| CONTROL GRID TO PLATE                | 0.02    | 2.2    | $\mu\mu\text{f}$ |
| PENTODE CONTROL GRID TO TRIODE GRID  |         | 0.02   | $\mu\mu\text{f}$ |
| PENTODE CONTROL GRID TO TRIODE PLATE |         | 0.009  | $\mu\mu\text{f}$ |
| PENTODE PLATE TO TRIODE GRID         |         | 0.075  | $\mu\mu\text{f}$ |

## OPERATING CONDITIONS AND CHARACTERISTICS

PENTODE SECTION-CLASS A<sub>1</sub> AMPLIFIER

|                                           |       |                  |
|-------------------------------------------|-------|------------------|
| PLATE VOLTAGE                             | 100   | VOLTS            |
| SCREEN VOLTAGE (GRID #2)                  | 100   | VOLTS            |
| CONTROL GRID VOLTAGE (GRID #1)            | -3    | VOLTS            |
| PLATE CURRENT                             | 7.6   | MA.              |
| SCREEN CURRENT                            | 2.0   | MA.              |
| PLATE RESISTANCE                          | 0.185 | MEGOHM           |
| TRANSCONDUCTANCE                          | 2000  | $\mu\text{MHOS}$ |
| AMPLIFICATION FACTOR                      | 370   |                  |
| CONTROL GRID VOLTAGE                      | -41   | VOLTS            |
| FOR TRANSCONDUCTANCE = 2 $\mu\text{MHOS}$ |       |                  |

TRIODE SECTION-CLASS A<sub>1</sub> AMPLIFIER

|                           |       |                  |
|---------------------------|-------|------------------|
| PLATE VOLTAGE             | 100   | VOLTS            |
| GRID VOLTAGE              | -1    | VOLT             |
| PLATE CURRENT             | 0.6   | MA.              |
| PLATE RESISTANCE          | 0.075 | MEGOHM           |
| TRANSCONDUCTANCE          | 1500  | $\mu\text{MHOS}$ |
| AMPLIFICATION FACTOR      | 112.5 |                  |
| GRID VOLTAGE (APPROX.)    | -2.5  | VOLTS            |
| FOR PLATE CURRENT CUT-OFF |       |                  |