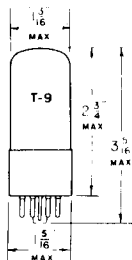


## TUNG-SOL



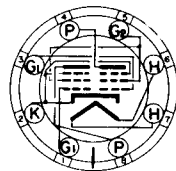
## TWIN-PENTODE POWER AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS

0.15 AMPERES



THE 12L8-GT IS A HEATER-CATHODE TYPE OF TWIN-UNIT TUBE WHICH CONTAINS TWO POWER-AMPLIFIER PENTODES WHICH HAVE A COMMON CATHODE. USING SINGLE-ENDED GT-CONSTRUCTION, THE 12L8-GT IS USEFUL IN THE OUTPUT STAGE OF COMPACT, LIGHTWEIGHT EQUIPMENT WHERE MODERATE POWER OUTPUT IS DESIRED. IN SUCH SERVICE, THE UNITS MAY BE CONNECTED IN PUSH-PULL OR IN PARALLEL DEPENDING ON THE REQUIREMENTS.

## RATINGS

|                                       |           |      |       |
|---------------------------------------|-----------|------|-------|
| HEATER OR FILAMENT VOLTAGE (AC OR DC) |           | 12.6 | VOLTS |
| HEATER OR FILAMENT CURRENT            |           | 0.15 | AMP.  |
| MAXIMUM PLATE VOLTAGE                 | EACH UNIT | 180  | VOLTS |
| MAXIMUM SCREEN VOLTAGE                | " "       | 180  | VOLTS |
| MAXIMUM PLATE DISSIPATION             | " "       | 2.5  | WATTS |
| MAXIMUM SCREEN DISSIPATION            | " "       | 1.0  | WATT  |
| MAXIMUM D-C HEATER-CATHODE POTENTIAL  |           | 100  | VOLTS |

## DIRECT INTERELECTRODE CAPACITANCES (WITH NO EXTERNAL SHIELD)

|                         | PENTODE UNIT P1 | PENTODE UNIT P2 |                  |
|-------------------------|-----------------|-----------------|------------------|
| CONTROL GRID TO CATHODE | 5.0             | 5.0             | $\mu\mu\text{f}$ |
| PLATE TO CATHODE        | 6.0             | 6.0             | $\mu\mu\text{f}$ |
| GRID TO PLATE           | 0.7             | 0.7             | $\mu\mu\text{f}$ |
| GRID TO GRID            |                 | 0.08            | $\mu\mu\text{f}$ |
| PLATE TO PLATE          |                 | 1.5             | $\mu\mu\text{f}$ |
| GRID OF P1-PLATE OF P2  |                 | 0.2             | $\mu\mu\text{f}$ |
| GRID OF P2-PLATE OF P1  |                 | 0.1             | $\mu\mu\text{f}$ |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## CLASS A AMPLIFIER (EACH SECTION)

|                               |       |                  |
|-------------------------------|-------|------------------|
| HEATER OR FILAMENT VOLTAGE    | 12.6  | VOLTS            |
| HEATER OR FILAMENT CURRENT    | 0.15  | AMP.             |
| PLATE VOLTAGE                 | 180   | VOLTS            |
| SCREEN VOLTAGE                | 180   | VOLTS            |
| CONTROL GRID VOLTAGE          | -9    | VOLTS            |
| PEAK AF SIGNAL VOLTAGE        | 9     | VOLTS            |
| ZERO-SIGNAL PLATE CURRENT     | 13    | MA.              |
| ZERO-SIGNAL SCREEN CURRENT    | 2.8   | MA.              |
| MAXIMUM-SIGNAL PLATE CURRENT  | 13.5  | MA.              |
| MAXIMUM-SIGNAL SCREEN CURRENT | 4.6   | MA.              |
| PLATE RESISTANCE              | 0.16  | MEGOHM           |
| TRANSCONDUCTANCE              | 2150  | $\mu\text{MHOS}$ |
| LOAD RESISTANCE               | 10000 | OHMS             |
| TOTAL HARMONIC DISTORTION     | 10    | PER CENT         |
| POWER OUTPUT                  | 1     | WATT             |