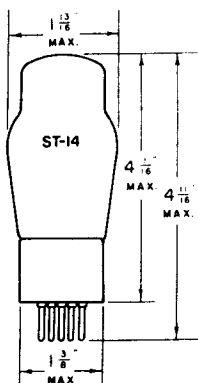


## TUNG-SOL



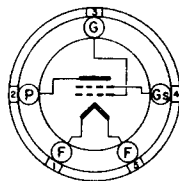
## DUAL GRID POWER AMPLIFIER

COATED FILAMENT

2.0 VOLTS 0.12 AMPERE  
DC

GLASS BULB

MEDIUM 5 PIN BASE



5C

BOTTOM VIEW

THE TUNG-SOL 49 IS A DUAL GRID POWER TUBE DESIGNED FOR USE IN A CLASS A OR CLASS B OUTPUT STAGE.

## OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIERGRID G<sub>2</sub> CONNECTED TO PLATE AT SOCKET

|                           |                     |       |
|---------------------------|---------------------|-------|
| PLATE VOLTAGE             | 135 <sup>MAX.</sup> | VOLTS |
| GRID VOLTAGE <sup>A</sup> | -20                 | VOLTS |
| PLATE CURRENT             | 6.0                 | MA.   |
| PLATE RESISTANCE          | 4175                | OHMS  |
| TRANSCONDUCTANCE          | 1125                | μMHOS |
| AMPLIFICATION FACTOR      | 4.7                 |       |
| LOAD RESISTANCE           | 11000 <sup>B</sup>  | OHMS  |
| POWER OUTPUT              | 0.170               | WATT  |

<sup>A</sup> RETURN TO NEGATIVE FILAMENT (PIN #5)<sup>B</sup> APPROXIMATELY TWICE THIS VALUE IS RECOMMENDED FOR LOAD AS DRIVER FOR CLASS B STAGECLASS B<sub>2</sub> AMPLIFIER - TWO TUBES - PUSH-PULL

GRIDS CONNECTED TOGETHER AT SOCKET

|                                                     |      |                     |       |
|-----------------------------------------------------|------|---------------------|-------|
| PLATE VOLTAGE                                       | 135  | 180 <sup>MAX.</sup> | VOLTS |
| GRID VOLTAGE <sup>E</sup>                           | 0    | 0                   | VOLTS |
| PEAK AF SIGNAL VOLTAGE <sup>PER TUBE C</sup>        | 35   | 35                  | VOLTS |
| ZERO-SIGNAL PLATE CURRENT <sup>PER TUBE D</sup>     | 1.3  | 2                   | MA.   |
| EFFECTIVE LOAD RESISTANCE <sup>PLATE TO PLATE</sup> | 8000 | 12000               | OHMS  |
| POWER OUTPUT APPROX.                                | 2.3  | 3.5                 | WATTS |

<sup>C</sup> FOR POWER OUTPUT SHOWN<sup>D</sup> MAXIMUM PEAK PLATE CURRENT IS 50 MA.<sup>E</sup> RETURN TO NEGATIVE FILAMENT (PIN #5)

FOR "INTERPRETATION OF RATINGS" REFER TO THE FRONT OF BOOK.