TRIODE
AUDIO-FREQUENCY AMPLIFIER

DESCRIPTION

The 101L is a filamentary type triode. It is designed for use as an audio-frequency amplifier or modulator.

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament Current</td>
<td>250 milliamperes</td>
</tr>
<tr>
<td>Maximum Plate Voltage</td>
<td>180 volts</td>
</tr>
<tr>
<td>Amplification Factor</td>
<td>6.5</td>
</tr>
</tbody>
</table>

ELECTRON TUBE DATA SHEET
FILE: GENERAL PURPOSE SECTION
6-49
GENERAL CHARACTERISTICS

ELECTRICAL DATA

Filament Current ........................................ 250 milliamperes
Filament Voltage, Nominal* ................................ 4.15 volts
Direct Interelectrode Capacitances
  Grid to Plate ........................................ 6.0 uuf
  Input .................................................. 3.9 uuf
  Output .................................................. 2.8 uuf

MECHANICAL DATA

Cathode .................................................. Coated Filament
Base ...................................................... Medium 4-pin type with bayonet pin
Mounting Position ...................................... Preferably vertical; if horizontal, pins #1
and #2 must lie in same vertical plane

Dimensions and pin connections shown in outline drawing on Page 5

MAXIMUM RATINGS, Design-Center Values

Plate Voltage ........................................... 180 volts
Plate Dissipation ........................................ 2.0 watts
Plate Current ........................................... 15 milliamperes

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS—CLASS A1 AMPLIFIER

Filament Current, D-C ................................... 250 milliamperes
Plate Voltage ........................................... 130 volts
Grid Voltage ............................................ 8 10 volts
Peak A-F Grid Voltage .................................. 8 10 volts
Plate Current ........................................... 6.8 10.2 milliamperes
Transconductance ....................................... 1080 1240 micromhos
Amplification Factor ................................... 6.5 6.5
Plate Resistance ........................................ 6000 5200 ohms
Load Resistance ......................................... 6000 5200 ohms
Maximum Signal Power Output ......................... 60 100 milliwatts
Total Harmonic Distortion Less Than ................ 3.4 3.2 per cent

* The filament resistance of this tube increases slightly during the first year of operating life.
The voltage given above is the nominal value after the filament resistance has stabilized.
ON THE STUD WHERE THE DIAMETER OF THE STUD PLUS SOLDER DOES NOT EXCEED .129 MAX.

**TRANSCONDUCTANCE IN MICROMHOS**

<table>
<thead>
<tr>
<th>Transconductance (in Micromhos)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600</td>
</tr>
<tr>
<td>1200</td>
</tr>
<tr>
<td>800</td>
</tr>
<tr>
<td>400</td>
</tr>
</tbody>
</table>

**GRID VOLTAGE**

-28 -24 -20 -16 -12 -8 -4 0

**NOTE:**

THIS DIMENSION APPLIES FROM THE TOP OF THE BAYONET PIN, TO A POINT ON THE STUD WHERE THE DIAMETER OF THE STUD PLUS SOLDER DOES NOT EXCEED .129 MAX.