The 6SL7GT combines two independent high-mu triodes in one envelope. It is designed primarily for phase inverter service.

**Ratings**

Interpreted according to design center system

- **Heater Voltage**: 6.3 volts
- **Maximum Heater-Cathode Voltage**: 90 volts
- **Maximum Plate Voltage**: 300 volts
- **Maximum Positive DC Grid #1 Voltage**: 0 volts
- **Maximum Plate Dissipation (Each Unit)**: 1 watt

**Typical Operating Conditions and Characteristics**

Class A1 Amplifier - Each Triode Unit

- **Heater Voltage**: 6.3 volts
- **Heater Current**: 0.30 amp.
- **Plate Voltage**: 250 volts
- **Grid Voltage**: -2 volts
- **Plate Current**: 2.3 ma.
- **Plate Resistance**: 44,000 ohms
- **Transconductance**: 1,600 mhos
- **Amplification Factor**: 70
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS - CONT'D.

RESISTANCE COUPLED AMPLIFIER - EACH TRIODE UNIT*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEATER VOLTAGE</td>
<td>6.3</td>
<td>6.3</td>
</tr>
<tr>
<td>HEATER CURRENT</td>
<td>0.30</td>
<td>0.30</td>
</tr>
<tr>
<td>PLATE SUPPLY VOLTAGE</td>
<td>90</td>
<td>250</td>
</tr>
<tr>
<td>CONTROL GRID VOLTAGE</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PLATE LOAD RESISTOR</td>
<td>200 000</td>
<td>470 000</td>
</tr>
<tr>
<td>CONTROL GRID RESISTOR</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>INPUT CONDENSER</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>OUTPUT CONDENSER</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>GRID RESISTOR OF FOLLOWING STAGE</td>
<td>470 000</td>
<td>470 000</td>
</tr>
<tr>
<td>SIGNAL SOURCE IMPEDANCE (MAX.)</td>
<td>1 000</td>
<td>1 000</td>
</tr>
<tr>
<td>DISTORTION</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>OUTPUT VOLTAGE</td>
<td>8.0</td>
<td>37</td>
</tr>
<tr>
<td>VOLTAGE GAIN AT 400 CPS.</td>
<td>54</td>
<td>45</td>
</tr>
</tbody>
</table>

*INDICATES AN ADDITION.