DESCRIPTION
The GL-6135 is a miniature medium-mu triode designed for use as a local oscillator in very-high-frequency receivers. It is also suitable for use as an audio amplifier and for use in general-purpose applications. The GL-6135 is specifically designed to assure dependable life and reliable service under the exacting conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength, a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation, and a relatively high value of plate-to-grid insulation resistance throughout life.

TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>General Data</th>
<th>With Shield</th>
<th>Without Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cathode—Coated Unipotential</td>
<td>.63 Volts</td>
<td></td>
</tr>
<tr>
<td>Heater Voltage (A-c or D-c)</td>
<td>.0175 Ampere</td>
<td></td>
</tr>
<tr>
<td>Direct Interelectrode Capacitances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grid to Plate</td>
<td>1.4</td>
<td>1.4 uuf</td>
</tr>
<tr>
<td>Input</td>
<td>1.7</td>
<td>1.5 uuf</td>
</tr>
<tr>
<td>Output</td>
<td>2.6</td>
<td>0.7 uuf</td>
</tr>
</tbody>
</table>

Mechanical Data
Mounting Position—Any
Envelope—T-5½ Glass
Base—Miniature Button 7-pin, E7-1
MAXIMUM RATINGS

Electrical—Design Center Values
Plate Voltage .............................................................................. 300 Volts
Plate Dissipation ........................................................................ 3.5 Watts
D-c Cathode Current .................................................................... 25 Milliamperes
Heater-Cathode Voltage ............................................................... 90 Volts
Grid-Circuit Resistance
  With Fixed Bias ..................................................................... 0.25 Megohm
  With Cathode Bias ................................................................. 1.0 Megohm
Mechanical
Peak Impact Acceleration in Any Direction ............................... 600 G

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier
Plate Voltage .............................................................................. 100
Grid Voltage .............................................................................. 0
Amplification Factor ................................................................. 19.5
Plate Resistance, approximate .................................................. 6250
Transconductance .................................................................... 3100
Plate Current ............................................................................ 11.8
Grid Voltage, approximate for Ie = 10 Microamperes ............... 250 Volts
  −8.5 Volts
  17
  7700 Ohms
  2200 Micromhos
  10.5 Milliamperes
  −21 Volts

* With external shield No. 316 connected to cathode.

AVERAGE CHARACTERISTICS