DESCRIPTION

The GL-5751 is a high-mu nine-pin miniature tube with two triode sections, each of which has an individual cathode connection. The heater may be connected for either series or parallel operation. Distinctive design features of this twin triode result in a sturdy vibration-resistant tube for industrial or other applications where dependable operation under rigorous service conditions is a necessity. It is also well adapted to intermittent service conditions. To provide a safety factor in cathode performance, the heater current is slightly higher than in conventional tubes of this type.

GENERAL

<table>
<thead>
<tr>
<th>Electrical Data</th>
<th>Parallel</th>
<th>Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cathode—Coated unipotential</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heater voltage (A-c or D-c)</td>
<td>6.3</td>
<td>12.6</td>
</tr>
<tr>
<td>Heater current</td>
<td>0.350</td>
<td>0.175</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting position—Any</td>
<td></td>
</tr>
<tr>
<td>Envelope—T-6½ Glass</td>
<td></td>
</tr>
</tbody>
</table>

Supersedes ETX-245 dated 5-50
**TECHNICAL INFORMATION (CONT'D)**

**MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS**

<table>
<thead>
<tr>
<th>Maximum Ratings</th>
<th>Design Center</th>
<th>Absolute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate voltage</td>
<td>300</td>
<td>330 volts</td>
</tr>
<tr>
<td>Grid voltage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative-bias value</td>
<td>50</td>
<td>55 volts</td>
</tr>
<tr>
<td>Positive-bias value</td>
<td>0</td>
<td>0 volts</td>
</tr>
<tr>
<td>Plate dissipation (each section)</td>
<td>1.0</td>
<td>1.1 watts</td>
</tr>
<tr>
<td>Peak heater-cathode voltage</td>
<td>90</td>
<td>100 volts</td>
</tr>
</tbody>
</table>

**Typical Operation**

| Class A amplifier (each triode section) | 6.3 | 6.3 volts |
| Heater voltage                       | 100 | 250 volts |
| Plate voltage                         | -1  | -3 volts  |
| Grid bias voltage                     | 70  | 70        |
| Amplification factor                  | 58000| 58000 ohms|
| Plate resistance                      | 1200 | 1200 micromhos |
| Transconductance                      | 0.8 | 1.0 milliampere |

**GL-5751**

**AVERAGE PLATE CHARACTERISTICS**

**TRIODE UNIT $E_I = 6.3$ VOLTS**

![Graph showing plate characteristics](image-url)
OUTLINE
PLIOTRON GL-5751

SMALL-BUTTON 9-PIN BASE NO. E9-1

*MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY RING GAGE OF 7/16" I.D.

BASING DIAGRAM

PIN 1: PLATE (SECTION NO. 2)
PIN 2: GRID (SECTION NO. 2)
PIN 3: CATHODE (SECTION NO. 2)
PIN 4: HEATER
PIN 5: HEATER
PIN 6: PLATE (SECTION NO. 1)
PIN 7: GRID (SECTION NO. 1)
PIN 8: CATHODE (SECTION NO. 1)
PIN 9: HEATER CENTER-TAP

Tube Department
GENERAL ELECTRIC
Schenectady, N. Y.