## TWIN-TRIODE AMPLIFIER

<table>
<thead>
<tr>
<th>Heater</th>
<th>Coated Unipotential Cathodes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>6.3 a-c or d-c volts</td>
</tr>
<tr>
<td>Current</td>
<td>0.3 amp.</td>
</tr>
</tbody>
</table>

### Direct Interelectrode Capacitances (Approx.)

<table>
<thead>
<tr>
<th>Triode Unit T&lt;sub&gt;1&lt;/sub&gt;</th>
<th>Triode Unit T&lt;sub&gt;2&lt;/sub&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>2.6</td>
</tr>
<tr>
<td>Grid to Cathode</td>
<td>2.6</td>
</tr>
<tr>
<td>Plate to Cathode</td>
<td>2.0</td>
</tr>
<tr>
<td>Grid to Grid</td>
<td>0.1</td>
</tr>
<tr>
<td>Plate to Plate</td>
<td>2.0</td>
</tr>
</tbody>
</table>

| Overall Length | 4-7/32” to 4-15/32” |
| Seated Height | 3-21/32” to 3-29/32” |
| Maximum Diameter | 1-9/16” |
| Bulb | ST-12 |
| Cap | Skirted Miniature, Style A |
| Base | Small Shell Octal 8-Pin |

### Pin Connections

- **Pin 1 - No Connection**
- **Pin 2 - Heater**
- **Pin 3 - Plate (Triode T<sub>1</sub>)**
- **Pin 4 - Cathode (Triode T<sub>2</sub>)**
- **Pin 5 - Grid (Triode T<sub>1</sub>)**
- **Pin 6 - Plate (Triode T<sub>1</sub>)**
- **Pin 7 - Heater**
- **Pin 8 - Cathode (Triode T<sub>1</sub>)**
- **Cap - Grid (Triode T<sub>2</sub>)**

### Mounting Position
- **Bottom View (G-8G)**
- **Any**

### Each Triode Unit

- **Plate Voltage**: 250 max. volts
- **Grid Voltage**: 0 min. volts
- **Plate Dissipation**: 1.0 max. watt

### Characteristics - Class A<sub>1</sub> Amplifier

- **Plate**: 250 volts
- **Grid**: -4.5 volts
- **Amp. Fact.**: 36
- **Plate Res.**: 22500 ohms
- **Transcond.**: 1600 μmhos
- **Plate Cur.**: 3.2 ma.

### Typical Operation - Resistance-Coupled Amplifier

See RESISTANCE-COUPL ED AMPLIFIER CHART.

- **In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.**

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Dec. 1, 1941

RCA Radiotron Division
RCA Manufacturing Company, Inc.
AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

$E_f = 6.3\ VOLTS$

PLATE MILLIAMPERES

SEPT. 18, 1941
RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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