### GENERAL DATA

**Electrical:**

- **Heater, for Unipotential Cathodes:**
  - **Heater Arrangement**: Series Parallel
  - **Voltage**: 12.6 6.3 - ac or dc volts
  - **Current**: 0.15 0.3 amp

- **Direct Interelectrode Capacitances (Approx.)**:
  - Unit No. 1 Unit No. 2
    - Grid to Plate: 1.5 1.5 μf
    - Grid to Cathode: 2.2 2.2 μf
    - Plate to Cathode: 0.5 0.4 μf
    - Heater to Cathode: 2.4 2.4 μf

- **Cathode-Drive Operation**:
  - Plate to Cathode: 0.2 0.2 μf
  - Grid & Heater to Cathode: 4.6 4.6 μf
  - Grid & Heater to Plate: 1.8 1.8 μf
  - Grid to Grid: 0.005 max. μf
  - Plate to Plate: 0.4 max. μf

*With no external shield.*

**Mechanical:**

- **Mounting Position**: Any
- **Maximum Overall Length**: 2-3/16" 1-15/16" 2-3/16" 1-15/16"
- **Maximum Seated Length**: 1-9/16" ± 3/32" 7/8" 1-9/16" ± 3/32" 7/8"
- **Length, Base Seat to Bulb Top (Excluding tip)**: T-6-1/2"
- **Bulb Diameter**: 9 Pin (JETEC No. E9-1)
- **Basing Designation for BOTTOM VIEW**: 9A

![Pin Configuration](attachment://pin_diagram.png)

**AMPLIFIER - Class A**

*Values are for each unit*

- **Maximum Ratings, Design-Center Values:**
  - **PLATE VOLTAGE**: 300 max. volts
  - **GRID VOLTAGE:**
    - Negative Bias Value: 50 max. volts
  - **PLATE DISSIPATION**: 2.5 max. watts

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*Indicates a change*

MARCH 1, 1954

RADIO CORPORATION OF AMERICA, MARSING, NEW JERSEY
### HIGH-MU TWIN TRIODE

**PEAK HEATER–CATHODE VOLTAGE:**
- Heater negative with respect to cathode: 90 max. volts
- Heater positive with respect to cathode: 90 max. volts

**Characteristics:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate Supply Voltage</td>
<td>100</td>
<td>250</td>
<td>volts</td>
</tr>
<tr>
<td>Cathode–Bias Resistor</td>
<td>270</td>
<td>200</td>
<td>ohms</td>
</tr>
<tr>
<td>Amplification Factor</td>
<td>60</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Plate Resistance (Approx.)</td>
<td>15000</td>
<td>10900</td>
<td>ohms</td>
</tr>
<tr>
<td>Transconductance</td>
<td>4000</td>
<td>5500</td>
<td>(\mu)hos</td>
</tr>
<tr>
<td>Grid Voltage (Approx.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for plate current of 10 (\mu)amp</td>
<td>-5</td>
<td>-12</td>
<td>volts</td>
</tr>
<tr>
<td>Plate Current</td>
<td>3.7</td>
<td>10</td>
<td>ma</td>
</tr>
</tbody>
</table>

→ Indicates a change

**March 1, 1954**