**TYPE 4C36**

**ORIGINAL SPONSOR:** Lewis Electronics  
**FINAL SPONSOR:** RMA

### GENERAL CHARACTERISTICS

**ELECTRICAL**
- Filament: Thoriated Tungsten
- Voltage: 5.0 volts
- Current: 7.3 amps
- Amplification Factor: 29
- Direct Inter-electrode Capacitance:
  - Grid-Plate: 3.0 mfd
  - Input, Grid-filament: 3.2 mfd
  - Output, Plate-filament: 0.4 mfd
- Frequency for Maximum Ratings: 60 Hz

### PHYSICAL
- Type of Cooling: None.
- Connection: Jumbo 4-pin metal sleeve bayonet base
- Maximum Overall Dimensions: See Outline Drawing
  - Length: 7.9 in
  - Diameter (bulb): 2.75 in
- Base Connections:  
  - 8 pin
  - 7 pin

### MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

**CLASS "B" AUDIO-FREQUENCY POWER AMPLIFIER, TWO TUBES**

<table>
<thead>
<tr>
<th>Typical Operation</th>
<th>Max. Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C Plate Voltage</td>
<td>3000 volts</td>
</tr>
<tr>
<td>Max. Sig. Plate Current (per tube)*</td>
<td>550 ma</td>
</tr>
<tr>
<td>D-C Max. Stg. Plate Input (per tube)*</td>
<td>350 watts</td>
</tr>
<tr>
<td>Plate Dissipation (per tube)*</td>
<td>125 watts</td>
</tr>
<tr>
<td>D-C Grid Voltage</td>
<td>-120 volts</td>
</tr>
<tr>
<td>Peak A-F Grid Input Voltage</td>
<td>480 volts</td>
</tr>
<tr>
<td>Zero Sig. Plate Current</td>
<td>40 ma</td>
</tr>
<tr>
<td>Max. Sig. Plate Current</td>
<td>240 ma</td>
</tr>
<tr>
<td>Max. Sig. Driving Power (approx.)</td>
<td>5 watts</td>
</tr>
<tr>
<td>Effective Load (plate to plate)</td>
<td>32000 ohms</td>
</tr>
<tr>
<td>Max. Sig. Plate Power Output</td>
<td>580 watts</td>
</tr>
</tbody>
</table>

*(Averaged over any audio-frequency cycle)*

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**CLASS "C" RADIO-FREQUENCY POWER AMPLIFIER & OSCILLATOR**

**Typical Operation:**
- D-C Plate Voltage: 3000 volts
- D-C Grid Voltage: -250 volts
- D-C Plate Current: 200 ma
- D-C Grid Current: 40 ma
- Plate Input: 700 watts
- Plate Dissipation: 125 watts
- Peak A-F Grid Input Voltage (approx.): 475 volts
- Driving Power (approx.): 18 watts
- Plate Power Output: 480 watts

**Max. Ratings:**
- D-C Plate Voltage: 4000 volts
- D-C Grid Voltage: -600 volts
- D-C Plate Current: 250 ma
- D-C Grid Current: 60 ma
- Plate Input: 700 watts
- Plate Dissipation: 125 watts
- Peak A-F Grid Input Voltage (approx.): 475 volts
- Driving Power (approx.): 18 watts
- Plate Power Output: 480 watts