The 5CX1500A is designed for use as a Class C rf power amplifier in radio frequency applications. For FM broadcast service, the 5CX1500B is recommended in place of the 5CX1500A, for improved reliability.

### CHARACTERISTICS
- **Plate Dissipation (Max.):** 1,500 Watts
- **Screen Dissipation (Max.):** 75 Watts
- **Grid Dissipation (Max.):** 25 Watts
- **Frequency for Max. rating (CW):** 110 MHz
- **Amplification Factor:** 5.5
- **Filament/Cathode:** Thoriated Tungsten
- **Voltage:** 5.0 Volts
- **Current:** 40.0 Amps
- **Capacitance:** Grounded Cathode
- **Input:** 75.0 pf
- **Output:** 16.5 pf
- **Feedthrough:** 0.2 pf
- **Capacitance:** Grounded Grid
- **Input:** 34.5 pf
- **Output:** 16.5 pf
- **Feedthrough:** 0.05 pf
- **Cooling:** Forced Air
- **Base:** Special Ring/Breechblock
- **Air Socket:** SK-840
- **Air Chimney:** SK-806
- **Boiler:** ---
- **Length:** 4.95 in; 125.70 mm
- **Diameter:** 3.37 in; 85.60 mm
- **Weight:** 30 oz; 850 gm

### MAXIMUM RATINGS

<table>
<thead>
<tr>
<th>Class of Operation</th>
<th>Type of Service</th>
<th>Plate Voltage (Volts)</th>
<th>Plate Current (Amps)</th>
<th>Plate Voltage (Volts)</th>
<th>Screen Voltage (Volts)</th>
<th>Plate Current (Amps)</th>
<th>Drive Power (Watts)</th>
<th>Output Power (kiloWatts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>RF amplifier</td>
<td>5,000</td>
<td>1.0</td>
<td>4,500</td>
<td>500</td>
<td>0.90</td>
<td>9.0</td>
<td>3.18</td>
</tr>
<tr>
<td>C</td>
<td>RF Amplifier plate modulated</td>
<td>3,500</td>
<td>0.8</td>
<td>3,200</td>
<td>500</td>
<td>0.80</td>
<td>10.0</td>
<td>1.958</td>
</tr>
<tr>
<td>AB1</td>
<td>RF linear amplifier</td>
<td>4,000</td>
<td>1.0</td>
<td>4,000</td>
<td>500</td>
<td>0.70</td>
<td>---</td>
<td>1.785</td>
</tr>
<tr>
<td>AB1</td>
<td>AF amplifier or modulated</td>
<td>4,000</td>
<td>1.0</td>
<td>3,800</td>
<td>500</td>
<td>1.3</td>
<td>---</td>
<td>3.22</td>
</tr>
</tbody>
</table>

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

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**For information** on this and other CPI products, visit our website at: [www.cpii.com](http://www.cpii.com), or contact: CPI MPP Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303

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