Type 6L21
Pulse Modulator Tetrode

GENERAL CHARACTERISTICS

**Electrical**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament</td>
<td>Thoriated tungsten</td>
</tr>
<tr>
<td>Voltage</td>
<td>7.5 volts</td>
</tr>
<tr>
<td>Current</td>
<td>20.0 amp.</td>
</tr>
</tbody>
</table>

Direct Interelectrode Capacitances

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacitance (Max.)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid-plate</td>
<td></td>
<td>7.5 uuf</td>
</tr>
<tr>
<td>Input-grid-filament</td>
<td></td>
<td>35.0 uuf</td>
</tr>
<tr>
<td>Output-plate-filament</td>
<td></td>
<td>17.0 uuf</td>
</tr>
</tbody>
</table>

**Mechanical**

- **Type of Cooling:** Convection (Maximum Ambient 60°C)
- **Mounting:** Vertical
- **Base Description:** Giant 5-pin bayonet
- **Base Connections:** See outline drawing

**Maximum Overall Dimensions**

- **Length:** 12.50 inches
- **Diameter:** 5.187 inches

**Typical Operation**

- **D.C. plate supply:** 35.0 Kv
- **Output voltage:** 32.0 Kv
- **D.C. grid bias:** -1000 volts
- **Peak positive grid drive:** 1500 volts
- **Equivalent load resistor:** 1660 ohms
- **Peak plate current:** 15.0 amp.
- **Pulse duration:** 1 usec (Max.)
- **Repetition rate:** 1000 CPS
- **Average I_E2 range:** 4.0 to 9.0 ma
- **Average I_E1 range:** 3.0 to 6.0 ma
Type 6F21
Pulse Modulator Tetrode

Maximum Ratings

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate voltage</td>
<td>37.5 Kv</td>
</tr>
<tr>
<td>Screen voltage</td>
<td>2.5 Kv</td>
</tr>
<tr>
<td>Peak plate current (duty cycle .001 or less)</td>
<td>15.0 amp</td>
</tr>
<tr>
<td>Peak positive control grid voltage</td>
<td>1750 volts</td>
</tr>
<tr>
<td>Negative control grid voltage</td>
<td>-1250 volts</td>
</tr>
</tbody>
</table>

TYPE 6D21

TECHNICAL INFORMATION
PULSE MODULATOR TETRODE
OUTLINE DRAWING

- PLATE: .80" ± .007"
- .873" NOM.
- 5.187" MAX.
- 12.500" MAX.
- 11.532" ± .004"
- .312" MIN.
- 2.77" ± .004" ± .008"
- 7" ± .3" 15 16 ± .03"
- 0.125" 1 32
- RMA STANDARD A5-19
MED. SHELL
GIANT 5-PIN BAYONET BASE

NO CONN. FILAMENT - PINS 4 & 5
CONNECTED INTERNALLY

BAYONET PIN FILAMENT - PINS 1 & 2
CONNECTED INTERNALLY

BOTTOM VIEW OF BASE