Description: A beam tetrode with a maximum anode dissipation of 30 watts. Designed for the use in the output stage of all types of audio amplifiers. Recommended for replacement for all 6L6 or 5881 type amplifiers for superior fidelity and improved power output performance. Especially applicable for Fender type amps and early Marshall JTM45 series amps originally designed for KT66/5881 tube types.

**MAXIMUM RATINGS**

<table>
<thead>
<tr>
<th>Design</th>
<th>Absolute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Va</td>
<td>500v</td>
</tr>
<tr>
<td>Vg2</td>
<td>500v</td>
</tr>
<tr>
<td>Vg1</td>
<td>200v</td>
</tr>
<tr>
<td>Ia</td>
<td>200v</td>
</tr>
<tr>
<td>Pa</td>
<td>22w</td>
</tr>
<tr>
<td>Pg2</td>
<td>3.5w</td>
</tr>
<tr>
<td>Pa+g2</td>
<td>7w</td>
</tr>
<tr>
<td>Vh-k</td>
<td>150v</td>
</tr>
<tr>
<td>Tbulp</td>
<td>250c</td>
</tr>
</tbody>
</table>

**BASE CONNECTIONS**

4-g2          5-g1
3-a           6-NP
2-h           7-h
1-IC          8-k

**BASE CONNECTIONS**

**TYPICAL OPERATION CHARACTERISTICS**

### Ultra-linear Connections

**Push-Pull 40% Taps.**

**Class AB1 Cathode Bias**

- $V_a(b)$: 450v
- $V_g^2 (0)$: 425v
- $V_g (max sig.)$: 400v
- $I_{a+g2}(0)$: 2 x 62.5 mA
- $I_{a+g2}(max sig.)$: 2 x 72.5 mA
- $P_{a+g2}(0)$: 2 x 26.5w
- $P_{a+g2}(max sig.)$: 2 x 13.0w
- *$R_k$: 2 x 560 ohms*
- *$V_g (Approx)$: 35v*
- $P_{out}$: 32w
- $R_L$: 7k ohms
- $z_{out}$: 9k ohms
- $D_{tot}$: 2%
- IM: 4%

* It is essential to use two separate cathode bias resistors.

### Ultra-linear Connections

**Push-Pull 40% Taps.**

**Class AB1 Fixed Bias**

- $V_{ag2}(0)$: 525v
- $V_{ag2}(max sig.)$: 500v
- $I_{a+g2}(0)$: 2 x 35mA
- $I_{a+g2}(max sig.)$: 2 x 80 mA
- $P_{a+g2}(0)$: 2 x 18w
- $P_{a+g2}(max sig.)$: 2 x 15w
- *$V_{g1} (approx)$: 67v*
- $R_{l (a-a)}$: 8k ohms
- $V_{in (g1-g1)(pk)}$: 127v
- $P_{out}$: 50w
- $D_{tot}$: 3%
- IM: 15%
- $z_{out}$: 12k ohms

* A negative bias range of +/-25% should be available for each tube.

**Typical AB1 amp Idle Current ranges from:**

- 35mA-45mA @ 450-550vdc on Va (plate)
- 45mA-55mA @ 390-450vdc on Va. (plate)