WESTINGHOUSE PRINTED CIRCUIT TUBE TYPE WL-7430

The WL-7430 is a sharp-cutoff pentode designed for service as a wide-band, high-frequency amplifier. This tube has characteristics similar to the type 6AK5.

The WL-7430 features a new envelope design which makes the tube extremely rugged. This new envelope also permits better lead isolation and uses flying leads designed to be soldered into the circuit. The arrangement of the leads in the WL-7430 reduces lead inductance and facilitates design of a multitube distributed amplifier circuit which takes the form of a transmission line.

The WL-7430 also finds applications in critical circuits requiring a high degree of physical and electrical stability.

**ELECTRICAL:**
- Cathode: Coated Unipotential
- Heater: Voltage (ac or dc): 6.3 Volts
- Current: 0.2 Amperes

**MAXIMUM RATINGS:**
- Design Center Values: Plate Voltage: 180 max. Volts
- Grid 2 Voltage: 140 max. Volts
- Positive Grid 1 Voltage: 0 max. Volts
- Plate Dissipation: 1.7 max. Watts
- Grid 2 Dissipation: 0.5 max. Watts

**TYPICAL OPERATING CHARACTERISTICS**
- Plate Voltage: 120 180 Volts
- Grid 2 Voltage: 120 120 Volts
- Grid 1 Voltage: -2 -2 Volts
- Plate Resistance: 0.3 0.5 Megohm
- Transconductance: 5000 5100 mhos
- Plate Current: 7.5 7.7 Ma.
- Grid 2 Current: 2.5 2.4 Ma.
- Grid 1 Cutoff Voltage: -8.5 -8.5 Volts

*For plate current of 20 microamperes.*

**LEAD CONNECTIONS**

<table>
<thead>
<tr>
<th>Lead No.</th>
<th>Filament</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heater &amp; Cathode</td>
</tr>
<tr>
<td>2</td>
<td>Plate</td>
</tr>
<tr>
<td>3</td>
<td>Grid 1</td>
</tr>
<tr>
<td>4</td>
<td>Cathode &amp; Grid 3</td>
</tr>
<tr>
<td>5</td>
<td>Grid 2</td>
</tr>
<tr>
<td>6</td>
<td>Grid 1</td>
</tr>
<tr>
<td>7</td>
<td>Plate</td>
</tr>
<tr>
<td>8</td>
<td>Heater</td>
</tr>
</tbody>
</table>

NOTES:
1. LEAD LENGTHS: 2, 3, 4, 5, 6 & 7 ARE 3/8" LONG
2. LEAD CENTER DIMENSIONS APPLY WHERE THE LEAD INTERSECTS THE ENVELOPE.
3. ALL LEADS TO HAVE A TINNED DIA OF .020 1.005.