S.S.B.
Linear Amplifier

RATINGS - DATA
for Husky

ZERO BIAS POWER TRIODE by "O'MALLEY"

FEATURES:

► TWO 572-B's IN PARALLEL WILL PERMIT 1 KW INPUT.
► IN EVERY CASE DIRECT PLUG-IN REPLACEMENT FOR CONVENTIONAL 811A's.
► CAPABLE OF 225 WATTS PLATE DISSIPATION.
► 300% INCREASE PLATE DISSIPATION OVER 811A's.
► ZERCONIUM IMPREGNATED GRAPHITE ANODE.
► RUGGED BONDED THORIA FILAMENT - FOR LONGER LIFE.

GENERAL CHARACTERISTICS

ELECTRICAL:

Filament Voltage ........................................... 6.3 volts
Current ......................................................... 4.0 amps
Amplification Factor ......................................... 190
Interelectrode Capacitances:
      Grid – Plate ........................................... 6.0 mmf
      Grid – Filament ....................................... 6.0 mmf
      Plate – Filament .................................... 0.8 mmf

MECHANICAL:

Base .............................................................. 4 pin
Recommended Socket .................................... Johnson 122-224 or National XC4CIR4
Dimensions – see outline drawing
Bulb (Nonex – hard glass) ............................... Max. temp. 200°C

Note: O'Malley Type 572-B can be mounted base up or base down. If mounted in a horizontal position, filament and grid should be in a vertical plane.

FOR LONGER LIFE: If the free circulation of air around the tube is restricted, a small fan or centrifugal blower may be used to provide additional cooling for the tube.

Special Applications: If it is desired to operate this tube under conditions widely different from those given here, please write to Application Engineering Dept., for information and recommendations.
O'MALLEY ZERO BIAS POWER TRIODE:

CLASS B - SSB SERVICE
Two-Tone Modulation @ 30 Mc.

MAXIMUM RATINGS:

<table>
<thead>
<tr>
<th>Component</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C Plate Voltage</td>
<td>2500 Volts max.</td>
</tr>
<tr>
<td>D-C Plate Grid</td>
<td>250 Ma. max.</td>
</tr>
<tr>
<td>D-C Grid Current</td>
<td>50 Ma. max.</td>
</tr>
<tr>
<td>D-C Plate Input</td>
<td>560 Watts</td>
</tr>
<tr>
<td>Plate Dissipation</td>
<td>225 Watts</td>
</tr>
</tbody>
</table>

TYPICAL OPERATION:
Two-Tone Modulation @ 30 Mc.

<table>
<thead>
<tr>
<th>Component</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C Plate Voltage</td>
<td>2500 Volts max.</td>
</tr>
<tr>
<td>D-C Grid Voltage</td>
<td>0 Volts</td>
</tr>
<tr>
<td>D-C Plate Current at Peak Envelope</td>
<td>225 Ma.</td>
</tr>
<tr>
<td>Average Plate Current</td>
<td>160 Ma.</td>
</tr>
<tr>
<td>Peak Plate Current</td>
<td>675 Ma.</td>
</tr>
<tr>
<td>Peak Positive Grid Voltage</td>
<td>110 Volts</td>
</tr>
<tr>
<td>Average D-C Grid Current</td>
<td>35 Ma.</td>
</tr>
<tr>
<td>Minimum Plate Voltage</td>
<td>135 Volts</td>
</tr>
<tr>
<td>D-C Input at Peak of Envelope</td>
<td>560 Watts</td>
</tr>
<tr>
<td>Peak Envelope Power Output</td>
<td>400 Watts</td>
</tr>
<tr>
<td>Plate Dissipation</td>
<td>195 Watts</td>
</tr>
<tr>
<td>Peak R-F Grid Voltage</td>
<td>110 Volts</td>
</tr>
<tr>
<td>Peak Grid Current</td>
<td>150 Ma.</td>
</tr>
<tr>
<td>Peak of Envelope Grid Current</td>
<td>50 Ma.</td>
</tr>
<tr>
<td>Driving Power of Tube</td>
<td>4.2 Watts</td>
</tr>
<tr>
<td>Effective Load Resistance</td>
<td>6900 Ohms</td>
</tr>
</tbody>
</table>

CATHODE DRIVE CONDITIONS:

Feed Through Power .......... 17.5 Watts

Note: "Typical Operation" data obtained by calculation from published characteristic curves and direct tests. No allowances of circuit losses, input or output has been made.
O'MALLEY ZERO BIAS POWER TRIODE:

AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR CLASS B

MAXIMUM RATINGS:

D-C Plate Voltage ........................................... 2500 Volts Max.
D-C Plate Current ........................................... 250 Ma. Max.
D-C Grid Current ........................................... 50 Ma. Max.
D-C Plate Input ............................................. 560 Watts
Plate Dissipation ........................................... 225 Watts

TYPICAL OPERATION (2) TUBES:

D-C Plate Voltage ........................................... 1,500 2,000 2500 Volts
D-C Grid Voltage ........................................... 0 0 0 Volts
Peak A-F ....................................................... 170 160 210 Volts
Grid to Grid Voltage ...................................... 60 70 80 Ma.
Effective Load Resistance Plate to Plate 12,500 16,500 15,000 Ohms
Max. Signal Driving Power ............................... 5.5 7 8.5 Watts
Max. Signal Power Output ................................. 380 530 730 Watts

R-F POWER AMPLIFIER AND OSCILLATOR CLASS C TELEGRAPHY

TYPICAL OPERATION (1) TUBE:

D-C Plate Voltage ........................................... 1,250 1,500 2,000 Volts
D-C Plate Current ........................................... 140 173 200 Ma.
D-C Grid Voltage ........................................... -50 -70 -70 Volts
D-C Grid Current ........................................... 45 40 30 Ma.
Peak R-F Grid Voltage .................................... 140 175 190 Volts
Driving Power ................................................ 5.6 7 5.5 Watts
Power Output .................................................. 135 200 300 Watts

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