TYPE 6486A (Tentative Data)
Reliable Hard Glass Miniature Dual Control Pentode

MECHANICAL DATA
Coated unipotential cathode
Outline drawing...... 6-2  Bulb.... T-6 1/2
Base. ................. E9-1 miniature button, 9-Pin
Maximum bulb temperature....... 300°C
Maximum diameter. ....... 7/8
Maximum seated height ....... 1-15/16
Maximum overall length ...... 2-3/16
Pin connections
Pin 1  Grid #1  9DV  Pin 6  Heater
Pin 2  Cathode  Pin 7  Grid #2
Pin 3  No connection  Pin 8  Cathode
Pin 4  Heater  Pin 9  Grid #3
Pin 5  Plate

Mounting position .... any
Life expectancy ....... 10,000 hrs

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Direct Interelectrode Capacitances</th>
<th>With shield</th>
<th>Without shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to plate (g1 to p) max. ....</td>
<td>0.04</td>
<td>0.035</td>
</tr>
<tr>
<td>Input max. ........................</td>
<td>4.4</td>
<td>4.5</td>
</tr>
<tr>
<td>Output: ...........................</td>
<td>3.7</td>
<td>3.3</td>
</tr>
<tr>
<td>Grid #1 to grid #3 max. ..........</td>
<td>0.16</td>
<td>0.16</td>
</tr>
<tr>
<td>Grid #3 to (h+k+g1+g2+p+i.s.) ....</td>
<td>3.5</td>
<td>3.6</td>
</tr>
</tbody>
</table>

Ratings
Heater voltage (ac or dc) ........ 6.3 volts
Maximum heater-cathode voltage .. 300 volts
Maximum plate voltage ........... 200 volts
Maximum grid #2 voltage .......... 155 volts
Maximum positive grid #3 voltage .. 30 volts
Maximum plate dissipation ....... 2.0 watts
Maximum grid #2 dissipation ...... 0.85 watts

Typical operating conditions and characteristics
Heater Voltage (ac or dc) .......... 6.3 6.3 volts
Heater Current, I(h) ............. 0.25 0.25 amp
Plate Voltage, Ib ................ 120 120 volts
Grid #2 Voltage, Ec2 ............. 120 120 volts
Grid #1 Voltage, Ec1 ............. -2 -2 volts
Grid #3 Voltage, Ec3 ............. -3 0 volts
Plate Current, Ib ................ 4.2 3.5 mA
Grid #2 Current, Ic2 ............. 5.1 3.3 mA
Mutual conductance, Grid #1-plate .. 2100 3250 μmhos
Mutual conductance, Grid #3-plate .. 710 450 μmhos
Grid #1 Voltage for Ib=10μA(approx.) .. --- -7 volts
Grid #3 Voltage for Ib=10μA(approx.) .. -15 0 volts

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