Output Pentode

5A/102A and D

(5A/102A is for replacement purposes only)

CATHODE.
Indirectly-heated Oxide-coated
Current 0.85 A
Nominal voltage 7.5 V

RATING.
Mutual conductance \( \{ \text{Measured at } V_a 180\text{V} \} \)
\( \{ V_{g2} 150\text{V} \} \) \( \{ V_{g1} -18\text{V} \} \) 2.5 ma/V

INTER-ELECTRODE CAPACITIES.
Grid to anode 0.5 pF
Input 6.8 pF
Output 9 pF

DIMENSIONS.
5A/102A 5A/102D
Maximum overall length 134 mm. 134 mm.
Maximum bulb diameter 46 mm. 46 mm.
Net weight 50 g. 55 g.
Base Am 6 pin. Int. Octal

MAXIMUM RATINGS.
Maximum direct anode voltage 180 V
Maximum direct anode current 50 mA
Maximum direct screen voltage 150 V
Maximum direct screen current 10 mA
Maximum control grid resistance (using auto-bias) 500 kΩ

April 1946

5A/102A—D—1
TYPICAL OPERATING CONDITIONS.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode voltage</td>
<td>180 volts</td>
</tr>
<tr>
<td>Control grid voltage</td>
<td>-18 volts</td>
</tr>
<tr>
<td>Screen voltage</td>
<td>150 volts</td>
</tr>
<tr>
<td>Suppressor voltage</td>
<td>0 volts</td>
</tr>
<tr>
<td>Load resistance</td>
<td>4,000 ohms</td>
</tr>
<tr>
<td>Output mW</td>
<td>50 100 250 500 750 1,000</td>
</tr>
<tr>
<td>Total harmonics, db below fundamental</td>
<td>34 31 28 26 25 24</td>
</tr>
</tbody>
</table>
Output Pentode

5A/102A and D

(5A/102A is for replacement purposes only)

ANODE & SCREEN CURRENT (mA)

ANODE VOLTAGE (V)

April 1946

5A/102A—D—3
Output Pentode

5A/102A and D
(5A/102A is for replacement purposes only)

5A/102A BASING
1 HEATER
2 ANODE
3 GRID 2
4 GRID 3
5 CATHODE
6 HEATER

5A/102D BASING
1 BLANK
2 HEATER
3 ANODE
4 GRID 2
5 GRID 3
7 HEATER
8 CATHODE

April 1946