6FQ7 is A.F. Double Triode

Quick reference data

- Anode current \( I_a = 10.5 \text{mA} \)
- Transconductance \( S = 2.6 \text{mA/V} \)
- Amplification \( \mu = 20 \)

Heating

Indirect by AC or DC

<table>
<thead>
<tr>
<th>Heater voltage</th>
<th>( V_f )</th>
<th>6.3</th>
<th>(V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater current</td>
<td>( I_f )</td>
<td>0.6</td>
<td>(A)</td>
</tr>
</tbody>
</table>

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Electronic mail: eirc@eierc.com
Web site: http://www.eierc.com/rc
Dimensions and connections

Base: Noval

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Typical characteristics and operating conditions (Class A amplifier)

<table>
<thead>
<tr>
<th></th>
<th>V_a</th>
<th>90</th>
<th>250</th>
<th>(V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode voltage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grid voltage</td>
<td>V_g</td>
<td>0</td>
<td>-8</td>
<td>(V)</td>
</tr>
<tr>
<td>Anode current</td>
<td>I_a</td>
<td>10</td>
<td>9</td>
<td>(mA)</td>
</tr>
<tr>
<td>Transconductance</td>
<td>S</td>
<td>3</td>
<td>2.6</td>
<td>(mA/V)</td>
</tr>
<tr>
<td>Amplification</td>
<td>µ</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Anode dissipation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>4</td>
<td>4</td>
<td>(W)</td>
</tr>
<tr>
<td></td>
<td>both</td>
<td>5.7</td>
<td>5.7</td>
<td></td>
</tr>
<tr>
<td>Heater to cathode voltage</td>
<td>V_kf</td>
<td>200</td>
<td>200</td>
<td>(V)</td>
</tr>
</tbody>
</table>

Limiting - maximal values (each unit)

<table>
<thead>
<tr>
<th></th>
<th>V_ao</th>
<th>500</th>
<th>(V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode voltage</td>
<td>V_a</td>
<td>330</td>
<td></td>
</tr>
<tr>
<td>Grid voltage</td>
<td>V_g</td>
<td>-100</td>
<td>(V)</td>
</tr>
<tr>
<td>Anode dissipation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>4</td>
<td>(W)</td>
</tr>
<tr>
<td></td>
<td>both</td>
<td>5.7</td>
<td></td>
</tr>
<tr>
<td>Heater to cathode voltage</td>
<td>V_kf</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Cathode to heater circuit resistance in phase splitting circuits</td>
<td>R_kf</td>
<td>150</td>
<td>(kΩ)</td>
</tr>
</tbody>
</table>

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Average plate characteristics 6FQ7 (each section)

- **Plate voltage (V)**
  - 0
  - 100
  - 200
  - 300
  - 400
  - 500

- **Plate current (mA)**
  - 0
  - 5
  - 10
  - 15
  - 20
  - 25
  - 30

- **Vf=12.6V**

- **Vg=0V**

- **Vr=12.6V**