6F33
SCREENED R.F. PENTODE
Indirectly heated

GENERAL
The 6.F.33 has a short cut-off Suppressor Grid characteristic which makes it particularly suitable for use in Modulator, Variable Reactance and Timing Circuits. A diode has been tied to the suppressor in order to prevent "blocking" when this grid is driven positive.

RATING
Heater Voltage (volts) \( V_h \) 6.3
Heater Current (amps) \( I_h \) 0.35
Maximum Anode Voltage (volts) \( V_a(\text{max}) \) 250
Maximum Screen Voltage (volts) \( V_g2(\text{max}) \) 250
Mutual Conductance (mA/V) \( g_m \) 4.35
Inner \( \mu \) \( \mu_{g1} \) & 38
Maximum Anode Dissipation (watts) \( P_a(\text{max}) \) 2.5
Maximum Screen Dissipation (watts) \( P_{g2} \) 0.8
Maximum Potential Heater/Cathode (volts DC) \( V_{h-k(\text{max})} \) 100

- Taken at \( V_a = 200V \); \( V_{g2} = 100V \);
- \( V_{g1} = -1.5V \); \( V_{g3} = 0V \).

\( \mu \) a.
\( \frac{V_{g2}}{V_{g1}} \) with \( I_a \) constant.

INTER-ELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th></th>
<th>( \mu )F</th>
<th>( \mu )F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode/Earth</td>
<td>4.5</td>
<td>5.6</td>
</tr>
<tr>
<td>Anode/Control Grid</td>
<td>0.01</td>
<td>0.012</td>
</tr>
<tr>
<td>Control Grid/Earth</td>
<td>7.3</td>
<td>8.4</td>
</tr>
<tr>
<td>Suppressor Grid/Earth</td>
<td>10.0</td>
<td>11.1</td>
</tr>
</tbody>
</table>

\( \mu \) Measured with Benjamin cylindrical screen type 75/632, but holder capacity balanced out.

\( \mu \) Including capacity of Benjamin 676 holder type 75/632 and screen type 56/632.

DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Overall Length</td>
<td>54</td>
</tr>
<tr>
<td>Maximum Diameter</td>
<td>18</td>
</tr>
<tr>
<td>Maximum Seated Height</td>
<td>45.6</td>
</tr>
<tr>
<td>Approximate Nett Height (ozs)</td>
<td></td>
</tr>
<tr>
<td>Approximate Packed Weight (ozs)</td>
<td></td>
</tr>
</tbody>
</table>

MOUNTING POSITION - Unrestricted.
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HOLD Clear
BASE B.7.G

Viewed from free end of pins

CONNECTIONS

Pin 1 Control Grid g1
Pin 2 Cathode k
Pin 3 Heater h
Pin 4 Heater h
Pin 5 Anode a
Pin 6 Suppressor Grid g3
Pin 7 Screen Grid g2
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CHARACTERISTIC CURVES OF AVERAGE

Curves taken at $V_g = 200V$.

Key
- - - Anode Current
- - - Screen Current

Associated Electrical Industries Limited
Electronic Components Division
Tel.: GERRARD 9797
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