Twin Dual Control Sharp Cutoff Pentode

Construction...............Compactron T-9
Base .........................Button 12 Pin, E12-70
Basing ........................12HB
Outline .......................9-59
Maximum Diameter ................1.188 In.
Maximum Seated Height ...........2.250 In.
Maximum Overall Height ..........2.625 In.

ELECTRICAL DATA
HEATER OPERATION

<table>
<thead>
<tr>
<th>Tube</th>
<th>Heated Voltage</th>
<th>Heated Current</th>
<th>Heater Warm-up Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>12BV11</td>
<td>12.6 Volts</td>
<td>450 Ma</td>
<td>11 Seconds</td>
</tr>
<tr>
<td>6BV11</td>
<td>6.3 Volts</td>
<td>900 Ma</td>
<td>— Seconds</td>
</tr>
</tbody>
</table>

NOTE: To obtain the unique characteristics of this tube, an internal shield is tied to the heater Pin No. 12. To assure proper operation Pin No. 12 must be tied directly to ground.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded) (Each Section)

- Grid No. 1 to Plate: 0.10 Pf
- Grid No. 3 to Plate: 3.2 Pf
- Input: g1 to (h + k + g2 + g3 + IS): 7.0 Pf
- Grid No. 3 to All.: 8.5 Pf
- Grid No. 1 to Grid No. 3: 0.08 Pf

RATINGS (Design Maximum Rating System) (Each Section)

- DC Plate Voltage (Max.): 300 Volts
- Positive Grid No. 3 Voltage (DC and Peak) (Max.): 25 Volts
- Negative Grid No. 3 Voltage (DC and Peak) (Max.): 100 Volts
- DC Grid No. 2 Supply Voltage (Max.): 300 Volts
- DC Grid No. 2 Voltage (Max.): See Rating Chart (Gen. Info. Sec.)
- Positive Grid No. 1 Voltage (Max.): 0 Volt
- Negative Grid No. 1 Voltage (Max.): 50 Volts
- Plate Dissipation (Max.): 1.7 Watts
- Grid No. 3 Input (Max.): 0.1 Watt
- Grid No. 2 Input (Ecc2 up to 150 V) (Max.): 1.0 Watt
- Grid No. 2 Input (Ec2 Between 150 V to 300 V): See Rating Chart (Gen. Info. Sec.)
- Grid No. 3 Circuit Resistance (Max.): 0.68 Megohm
- Grid No. 1 Circuit Resistance
  - Fixed Bias (Max.): 0.22 Megohm
  - Self Bias (Max.): 0.47 Megohm

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

- Plate Supply Voltage: 150 Volts
- Grid No. 3 Voltage: 0 Volt
- Grid No. 2 Supply Voltage: 100 Volts
- Cathode Resistor: 180 Ohms
- Plate Current: 3.1 Ma
- Grid No. 2 Current: 2.4 Ma
- Grid No. 1 Transconductance: 3200 µmhos
- Grid No. 3 Transconductance: 390 µmhos
- Plate Resistance (Approx.): 0.17 Megohm
- Ec1 for 1b = 75 µa (Approx.): -3.5 Volts
- Ec3 for 1b = 85 µa (Approx.): -5.5 Volts
- Amplification Factor (g3-P): 67