**6CZ5**

**BEAM POWER TUBE**

Miniature type used as a vertical-deflection amplifier in high-efficiency deflection circuits of color and black-and-white television receivers and in the audio output stage of television and radio receivers. Outlines section, 6G; requires miniature 9-contact socket. Type 5CZ5 is identical with type 6CZ5 except for heater ratings.

<table>
<thead>
<tr>
<th>5CZ5</th>
<th>6CZ5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Voltage (ac/dc)</td>
<td>4.7</td>
</tr>
<tr>
<td>Heater Current</td>
<td>0.6</td>
</tr>
<tr>
<td>Heater Warm-up Time (Average)</td>
<td>11</td>
</tr>
<tr>
<td>Heater-Cathode Voltage:</td>
<td></td>
</tr>
<tr>
<td>Peak value</td>
<td>±200 max</td>
</tr>
<tr>
<td>Average value</td>
<td>100 max</td>
</tr>
<tr>
<td>Direct Interelectrode Capacitances:</td>
<td></td>
</tr>
<tr>
<td>Grid No.1 to Plate</td>
<td>0.4 max</td>
</tr>
<tr>
<td>Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3</td>
<td>9</td>
</tr>
<tr>
<td>Plate to Cathode, Heater, Grid No.2, and Grid No.3</td>
<td>6</td>
</tr>
</tbody>
</table>

**CHARACTERISTICS**

- **Plate Voltage**: 75, 250 volts
- **Grid-No.2 Voltage**: 250, 250 volts
- **Grid-No.1 Voltage**: 0, 0 volts
- **Plate Resistance**: __, 73000 ohms
- **Transconductance**: __, 4800 μmhos
- **Plate Current**: 130*, 46 mA
- **Grid-No.2 Current**: 16*, 4.6 mA
- **Grid-No.1 Voltage (Approx.) for plate current of 100 μA**: __, 40 volts

**Vertical-Deflection Amplifier**

For operation in a 525-line, 30-frame system

**MAXIMUM RATINGS** (Design-Maximum Values)

- DC Plate Voltage: 350 volts
- Peak Positive-Pulse Plate Voltage#: 2200 volts
- Grid-No.2 (Screen-Grid) Voltage: 315 volts
- Peak Negative-Pulse Grid-No.1 (Control-Grid) Voltage: 275 volts
- Peak Cathode Current: 155 mA
- Average Cathode Current: 45 mA
- Plate Dissipation: 10 watts
- Grid-No.2 Input: 2.2 watts
- Bulb Temperature (At hottest point): 250 °C

**MAXIMUM CIRCUIT VALUES**

- Grid-No.1-Circuit Resistance:
  - For fixed-bias operation: 0.5 megohm
  - For cathode-bias operation: 1 megohm

# Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).

* This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

**6D4**
Refer to chart at end of section.

**6D6**
Refer to chart at end of section.

**6D7**
Refer to chart at end of section.

**6D8G**
Refer to chart at end of section.

**6D10**
Refer to chart at end of section.

**6DA4**
Refer to chart at end of section.
For replacement use type 6DM4A/6DA4.

**6DB5**
Refer to chart at end of section.