The CK5676 is a filament type triode of subminiature construction designed for use as a high-frequency oscillator, Class C amplifier, or frequency multiplier up to several hundred megacycles. The design of this type is optimized for high peak current, high frequency operation at relatively low filament power. The CK5676 is suitable for intermittent service applications such as "push-to-talk" transmitters which do not require long life characteristics. The filament of the CK5676 should not be operated continuously inasmuch as its 100 hour life rating is chiefly a function of filament temperature and hours of filament operation. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard in-line subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

ENVELOPE: T-2X3 Glass
BASE: None (0.016" tinned flexible leads. Length: 1.5" min.
Spacing: 0.048" center-to-center)

TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 1)
Lead 1 Plate
Lead 2 Filament, negative
Lead 3 Grid
Lead 4 Filament, positive

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (µfd.)

<table>
<thead>
<tr>
<th>Shielded</th>
<th>Unshielded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>1.4</td>
</tr>
<tr>
<td>Grid to Filament</td>
<td>1.3</td>
</tr>
<tr>
<td>Plate to Filament</td>
<td>3.4</td>
</tr>
</tbody>
</table>

RATINGS • ABSOLUTE MAXIMUM VALUES:

- Filament Voltage (dc) 1.25 ± 20% volts
- Plate Voltage 150 volts
- Plate Current 11 ma.

CHARACTERISTICS AND TYPICAL OPERATION • CLASS A1 AMPLIFIER:

- Filament Voltage (dc) 1.25 volts
- Filament Current 0.12 amps.
- Plate Voltage 135 volts
- Grid Voltage 0.5 volts
- Transconductance 1600 µmhos
- Amplification Factor 15
- Plate Current 4.0 ma.
- Grid Voltage (approx.) for Ib = 15 µa.
- 10 volts

* With close fitting shield connected to lead 2.

Tentative Data
AVERAGE PLATE CHARACTERISTICS

Conditions:
$E_f = 1.25$ Volts

Plate Current - Milliamperes

Plate Voltage - Volts