RUGGEDIZED
SUB-MINIATURE U.H.F. TRIODE

APPLICATION:

The 6169 is a T-3 subminiature triode designed for rugged applications as encountered in the military service. It is primarily intended for use in U.H.F. mixer, amplifier or pulse service. The frequency limit as an oscillator is above 800 megacycles. Elements carrying R.F. have double leads to reduce lead inductance and resistance. This is the equivalent to a single section of a 7F8 locktall.

RATINGS:

- Heater Voltage (AC or DC) ±10%:
  - 6.3 volts

- Maximum Plate Voltage:
  - 250 volts

- Maximum Plate Dissipation:
  - 100 volts

- Maximum Plate Current:
  - 3.0 watts

- Maximum Cathode Current:
  - 15 mA

- Maximum Impedance:
  - 500 ohms

- Maximum Vibration output:
  - 50 mV

- Maximum bulb temperature:
  - 200°C

INTERELECTRODE CAPACITANCES:

<table>
<thead>
<tr>
<th>UNSHIELDED</th>
<th>SHIELDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>1.7</td>
</tr>
<tr>
<td>Input</td>
<td>2.1</td>
</tr>
<tr>
<td>Output</td>
<td>.75</td>
</tr>
</tbody>
</table>

*With close fitting shield connected to cathode

TYPICAL CONDITION OF OPERATION:

- Heater Voltage: 6.3 volts
- Heater Current: 150 mA
- Plate Voltage: 180 volts
- Grid Voltage: -1, -75 volts
- Plate Current: 11.5 mA
- Grid Voltage for 10 μamp: -7 volts
- Plate Current (approx.): ---
- Plate Resistance: 8500 ohms
- Transconductance: 8500 μA/V
- Amplification Factor: 55

NOTE: LEADS MAY BE CUT TO .200" FOR USE IN CINCH SOCKET
54A-13686

* Measured across a 10,000 ohms load. Resistor when vibrated at 25 cps at .080" excursion.