The CK7246 is a 500 megacycle, filament type triode of subminiature construction designed for use as a high frequency oscillator, Class C amplifier, superregenerative detector, frequency multiplier or mixer. It is particularly useful in applications requiring economy of space, weight and battery drain. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard subminiature sockets may be used by cutting the leads to a suitable length.

**MECHANICAL DATA**

- **ENVELOPE:** T-2 X 3 Glass
- **BASE:** None (0.016" tinned flexible leads, Length: 1.5" min. spacing: 0.048" center-to-center)
- **TERMINAL CONNECTORS:** (Red dot is adjacent to lead 1)
  - Lead 1 Plate
  - Lead 2 Filament
  - Lead 3 Grid
  - Lead 4 Filament
  - (negative) (positive)
- **MOUNTING POSITIONS:** Any

**ELECTRICAL DATA**

**DIRECT INTERELECTRODE CAPACITANCES:** (μF/ds)

<table>
<thead>
<tr>
<th></th>
<th>Without Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>1.5</td>
</tr>
<tr>
<td>Input</td>
<td>1.6</td>
</tr>
<tr>
<td>Output</td>
<td>1.9</td>
</tr>
</tbody>
</table>

**RATINGS—ABSOLUTE MAXIMUM VALUES:**

- Filament Voltage (dc) 1.25 ± 12% volts
- Plate Voltage 150 volts
- Plate Current 7.5 mA
- Grid Current 1.2 mA
- Grid Voltage -30 volts
- Plate Dissipation 0.7 watts

**CHARACTERISTICS AND TYPICAL OPERATION—CLASS A1 AMPLIFIER:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament Voltage (dc)</td>
<td>1.25 volts</td>
</tr>
<tr>
<td>Filament Current</td>
<td>150 mA</td>
</tr>
<tr>
<td>Plate Voltage</td>
<td>106 volts</td>
</tr>
<tr>
<td>Grid Voltage</td>
<td>-2.5 volts</td>
</tr>
<tr>
<td>Transconductance</td>
<td>2700 μmhos</td>
</tr>
<tr>
<td>Amplification Factor</td>
<td>22</td>
</tr>
<tr>
<td>Plate Current</td>
<td>4.5 mA</td>
</tr>
</tbody>
</table>

These data identify a particular developmental tube design and type designation or the descriptive data may be subject to change or abandonment.

Objective Data

**INDUSTRIAL TUBE DIVISION**

55 CHAPEL ST., NEWTON 58, MASS.
AVERAGE PLATE CHARACTERISTICS

Condition:
Ef = 1.25 Vdc

Plate Current – Milliamperes

Plate Voltage – Volts

INDUSTRIAL TUBE DIVISION
AVERAGE GRID CHARACTERISTICS

Condition: $E_i = 1.25 \text{ Vdc}$

Grid Current - Milliamperes

Plate Voltage - Volts

INDUSTRIAL TUBE DIVISION
AVERAGE CHARACTERISTICS

Condition: $E_f = 1.25\, \text{Vdc}$

Grid Voltage - Volts

Plate Current - Milliamperes

55 CHAPEL ST., NEWTON 58, MASS.