K3 MAZDA

TETRODE ELECTROMETER TUBE

The 6250 is a tetrode miniature tube for electrometer applications. It consists of a low power filament, a space-charge grid no. 1, a grid control no. 2 and an anode. The grid no. 2 is connected to the top of the bulb.

This tube has been treated both inside and outside to provide the control grid with minimum leakage resistance and absolute minimum current.

The basing connections, outlined below, are designated 9CL.

CHARACTERISTICS

ELECTRICAL:

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Min.</th>
<th>Nominal</th>
<th>Max.</th>
<th>Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>40</td>
<td>2.5</td>
<td>50</td>
<td>mA</td>
</tr>
</tbody>
</table>

Capacitance: * Grid no. 2 5.8 μF

MECHANICAL:

- Maximum overall length: 2-1/2”
- Maximum diameter: 7/8”
- Base: Small-Button Noval 9 pin

Basic designation (Bottom view):

Pin 1 - Grid no. 1
Pin 2 - Internal connection
Pin 3 - Filament (+)
Pin 4 - Filament (-)
Pin 5 - Internal connection
Pin 6 - Grid no. 1
Pin 7 - No connection
Pin 8 - Plate
Pin 9 - Plate

The control grid is connected to the top of the bulb.

* Control-grid to all other electrodes in parallel

Address:

Compagnie des Lampes
C/o International General Electric Co.
Schenectady, N.Y.

MAXIMUM RATINGS:

- Plate voltage: 9 Volts max.
- Grid no. 1 voltage: 6 Volts max.
- Grid no. 2 voltage: -2 Volts max.

TYPICAL OPERATION:

- Plate voltage: 9 Volts
- Grid no. 1 voltage: 6 Volts
- Grid no. 2 voltage: -4 Volts

- Plate current: 75 μA
- Grid no. 1 current: 500 μA
- Transconductance: 40 μmho
- Application factor: 1.3

Control-grid leakage resistance: $10^{15}$ ohms
- Control-grid total inverse current: $2.10^{-15}$ A (approx.)

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