

TETRODE ELECTROMETER TUBE

The 6250 is a tetrode miniature tube for electrometer applications. It consists of a low power filament, a space-charge grid n° 1, a grid control n° 2 and an anode. The grid n° 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.

CHARACTERISTICSELECTRICAL:

Filament coated :	Min.	Nominal	Max.	
Voltage		2.5		Volts
Current	40	45	50	mA
Capacitance: * Grid n°2			5.8	µA

MECHANICAL:

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

Basic designation (Bottom view):

- Pin 1 - Grid n° 1
- Pin 2 - Internal connection
- Pin 3 - Filament (+)
- Pin 4 - Filament (-)
- Pin 5 - Internal connection
- Pin 6 - Grid n° 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:

~~Mazda Lamp Co.~~

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

MAXIMUM RATINGS:

Plate voltage	9 Volts max.
Grid n° 1 voltage	6 Volts max.
Grid n° 2 voltage	-2 Volts max.

TYPICAL OPERATION:

Plate voltage	9 Volts
Grid n° 1 voltage	6 Volts
Grid n° 2 voltage	-4 Volts

Plate current	75 µA
Grid n° 1 current	500 µA
Transconductance	40 µmho
Application factor	1.3

Control-grid leakage resistance $>10^{15}$ ohms
Control-grid total inverse current $2 \cdot 10^{-15}$ A (approx.)

