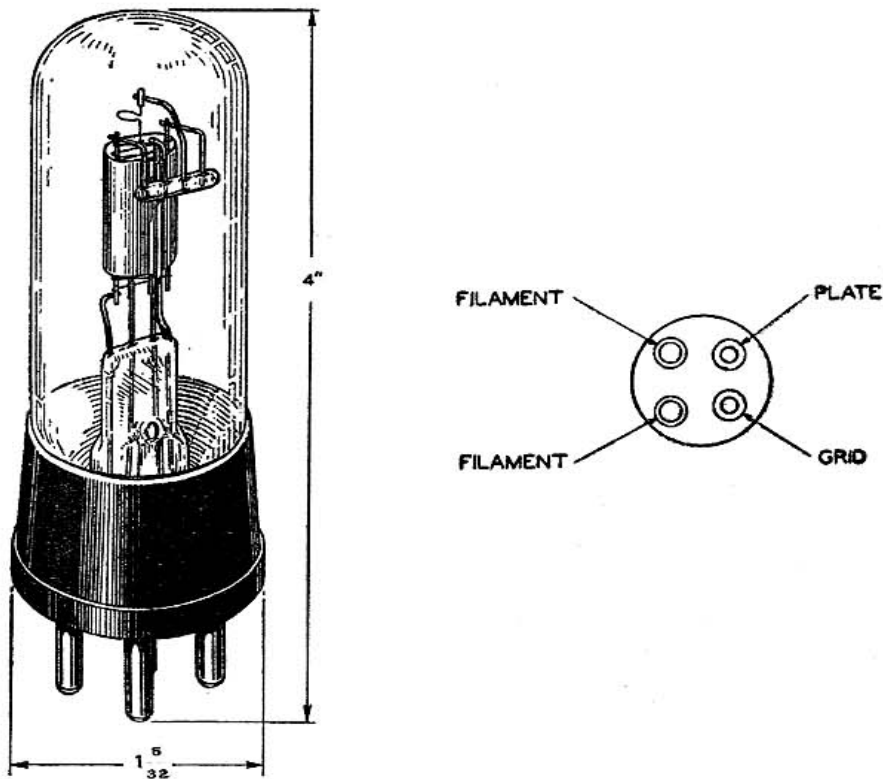


# 231D Vacuum Tube



### Classification

The No. 231D Vacuum Tube is a three-element filament type tube for use as an audio-frequency amplifier in the first and intermediate stages requiring a low filament power consumption.

### Base and Socket

The No. 231D Vacuum Tube employs a standard four-prong, thrust-type base suitable for use in a Western Electric No. 130B (rigid) or No. 131A (cushion) Socket or similar type socket. The arrangement of electrode connections to the base terminals is shown above.

### Rating and Characteristic Data

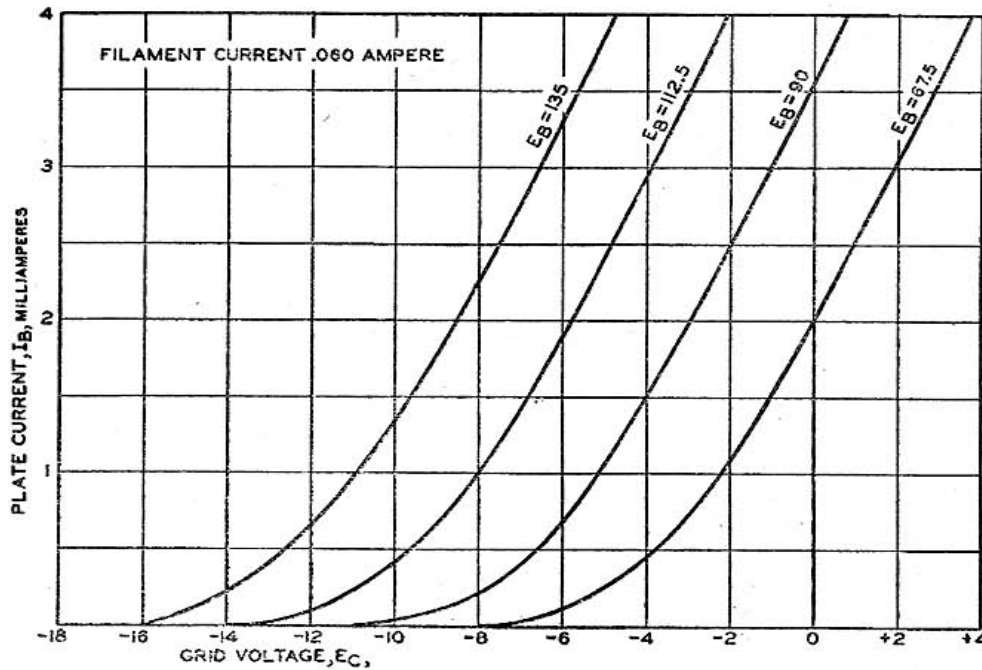
Filament Voltage.....		2.9 to 3.4 Volts, DC
Average Filament Current.....		0.060 Ampere
Plate Voltage.....	90	135 Volts Maximum
Grid Voltage.....	-3.0	-7.5 Volts
Average Plate Current.....	2	2.5 Milliamperes
Average Plate Resistance.....	15,600	14,600 Ohms
Average Amplification Factor.....	7.8	7.8

### Approximate Direct Interelectrode Capacities

Plate to Grid.....	3.2 MMF
Plate to Filament.....	2.5 MMF
Grid to Filament.....	2.4 MMF

### Average Static Characteristics

The accompanying curves give the average static characteristics of the No. 231D Vacuum Tube.



### General Features

The very low power consumed by the filament of the No. 231D Vacuum Tube makes it particularly adaptable for use in portable equipment or wherever a low current drain is necessary.

By careful control of the manufacturing processes, uniform characteristics are obtained over an unusually long life for a filament of such small size.