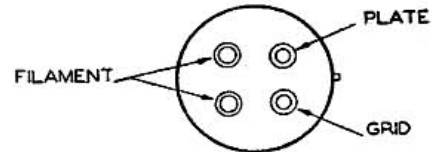
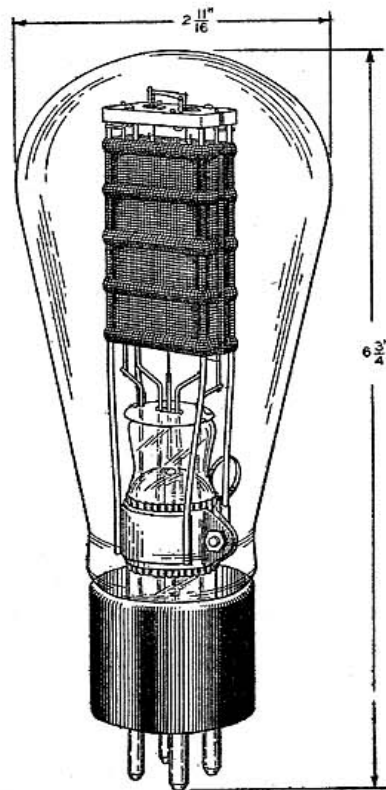


# 252A Vacuum Tube



## Classification

The No. 252A Vacuum Tube is a three-element tube having a filamentary type of cathode. The tube is for use as an audio-frequency amplifier in output stages where moderate powers are required. It may also be used as an oscillator or modulator.

## Base and Socket

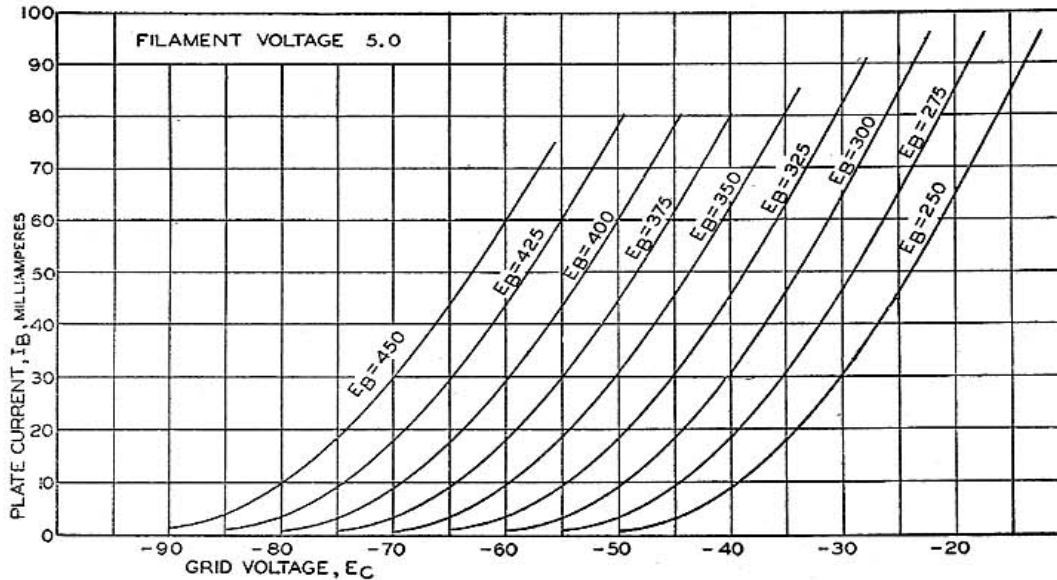
The No. 252A Vacuum Tube employs a standard four-prong, thrust-type base suitable for use in a Western Electric No. 130B (rigid) or No. 131A (cushion) socket or similar type socket. The arrangement of electrode connections to the base terminals is shown above.

## Rating and Characteristic Data

Filament Voltage.....	5 Volts, AC or DC
Average Filament Current.....	2 Amperes
For Fixed Grid Bias	
Maximum Plate Voltage.....	450 Volts
Maximum Grid Bias.....	—65 Volts
Average Plate Current.....	43 Milliamperes
Average Plate Resistance.....	1,700 Ohms
Average Amplification Factor.....	5.0
For Self-Biasing Grid	
Maximum Plate Voltage.....	450 Volts
Maximum Grid Bias.....	—60 Volts
Average Plate Current.....	60 Milliamperes
Average Plate Resistance.....	1,500 Ohms
Average Amplification Factor.....	5.1
Approximate Direct Interelectrode Capacities	
Plate to Grid.....	12.0 MMF
Plate to Filament.....	4.0 MMF
Grid to Filament.....	6.5 MMF

### Average Static Characteristics

The accompanying curves give the static characteristics of the No. 252A Vacuum Tube. These curves have been obtained with the filament operating on direct current and the grid and plate returns connected to the negative filament terminal.



### General Features

The tube has been designed with an unusually large plate area for its energy dissipation rating. The total electron emission of the filament is very large compared to the maximum space current drain. Both factors insure the delivery of full output power throughout a long life.

An unusually low output of hum, when alternating current is used for filament supply, is obtained through the design characteristics of the filament.

The rugged structure insures against breakage in shipment and in service and makes possible the maintenance of uniform electrical characteristics.