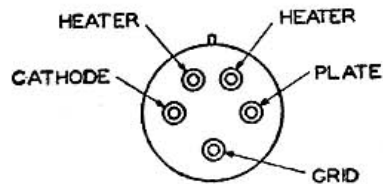
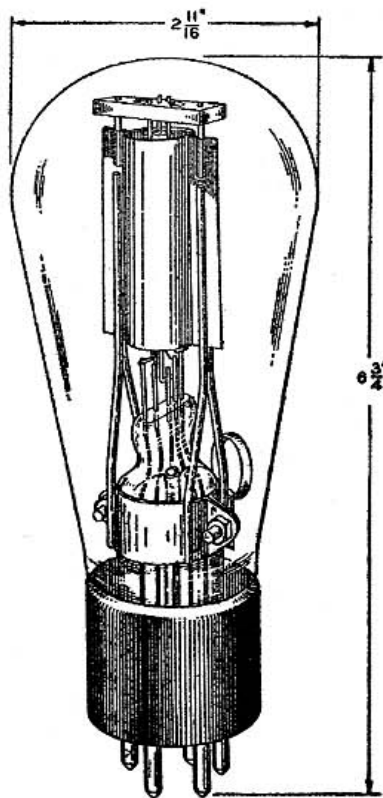


# 271A Vacuum Tube



## Classification

The No. 271A Vacuum Tube is a general purpose three-element tube having an indirectly heated cathode which permits operation directly on alternating current. The tube is for use as an audio-frequency amplifier in output stages. It may also be used as a radio-frequency amplifier and, under restricted conditions, as an oscillator or modulator.

## Base and Socket

The No. 271A Vacuum Tube employs a standard five-prong base suitable for use in a Western Electric No. 134A (cushion) or No. 137A (rigid) socket or similar type socket. The arrangement of electrode connections to the base terminals is shown above.

## Rating and Characteristic Data

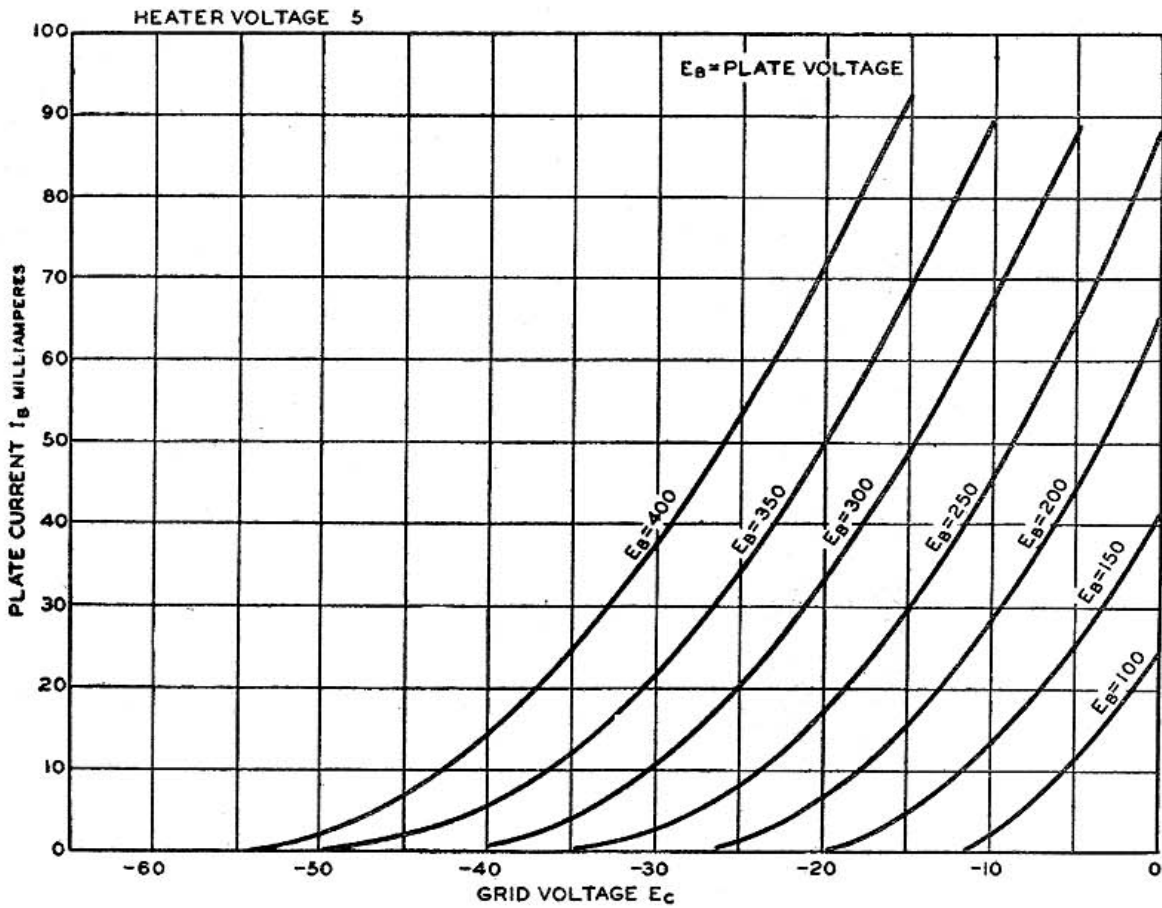
Heater Voltage.....	5 Volts, AC or DC	
Average Heater Current.....	2 Amperes	
Plate Voltage.....	350	400 Volts Maximum
Grid Voltage.....	-25	-30 Volts
Average Plate Current.....	36	39 Milliamperes
Average Plate Resistance.....	2900	2850 Ohms
Average Amplification Factor.....	8.5	8.5

## Approximate Direct Interelectrode Capacities

Plate to Grid.....	5.3 MMF
Plate to Cathode.....	3.8 MMF
Grid to Cathode.....	6.5 MMF

### Average Static Characteristics

The accompanying curves give the average static characteristics of the No. 271A Vacuum Tube.



### General Features

The indirectly heated cathode of the No. 271A Vacuum Tube makes it suitable for use as a power amplifier in applications requiring a low hum disturbance resulting from the use of alternating current for cathode power supply. Its hum level is approximately 30 db lower than that of filamentary type tubes of corresponding power output.

It has a large cathode area giving ample electron emission. This, together with the rugged construction, insures the maintenance of uniform electrical characteristics over a long life even when the tube is operated at its maximum rating.