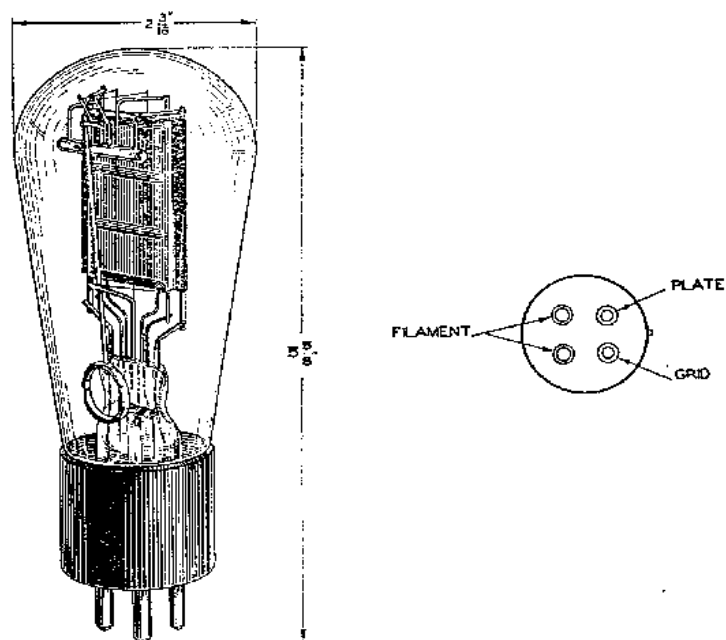


## 275A Vacuum Tube



### Classification

The No. 275A Vacuum Tube is a three-element filament type tube for use as a low-voltage power tube for output stages in audio-frequency amplifiers.

### Base and Socket

The No. 275A 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

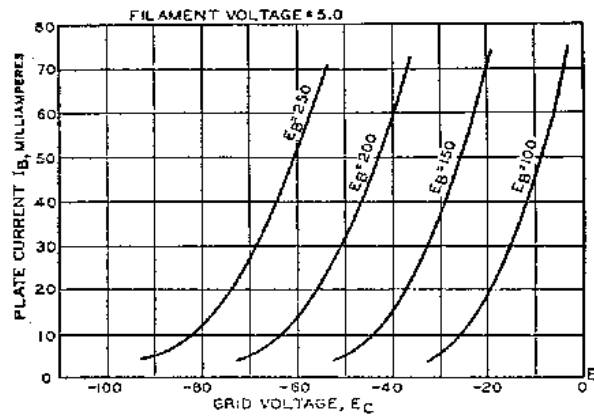
|                                   |       |                   |
|-----------------------------------|-------|-------------------|
| Filament Voltage.....             |       | 5 Volts, AC or DC |
| Average Filament Current.....     |       | 1.2 Amperes       |
| Plate Voltage.....                | 200   | 250 Volts Maximum |
| Grid Voltage.....                 | —45   | —60 Volts         |
| Average Plate Current.....        | 45    | 52 Milliamperes   |
| Average Plate Resistance.....     | 1,000 | 1,000 Ohms        |
| Average Amplification Factor..... | 2.9   | 2.85              |

### Approximate Direct Interelectrode Capacities

|                        |         |
|------------------------|---------|
| Plate to Grid.....     | 12 MMF  |
| Plate to Filament..... | 3.2 MMF |
| Grid to Filament.....  | 6.8 MMF |

### Average Static Characteristics

The accompanying curves give the average static characteristics of the No. 275A Vacuum Tube.



### General Features

The electrical characteristics of the No. 275A Vacuum Tube make it particularly adaptable in applications requiring an output power tube operated at relatively low plate voltage.

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

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