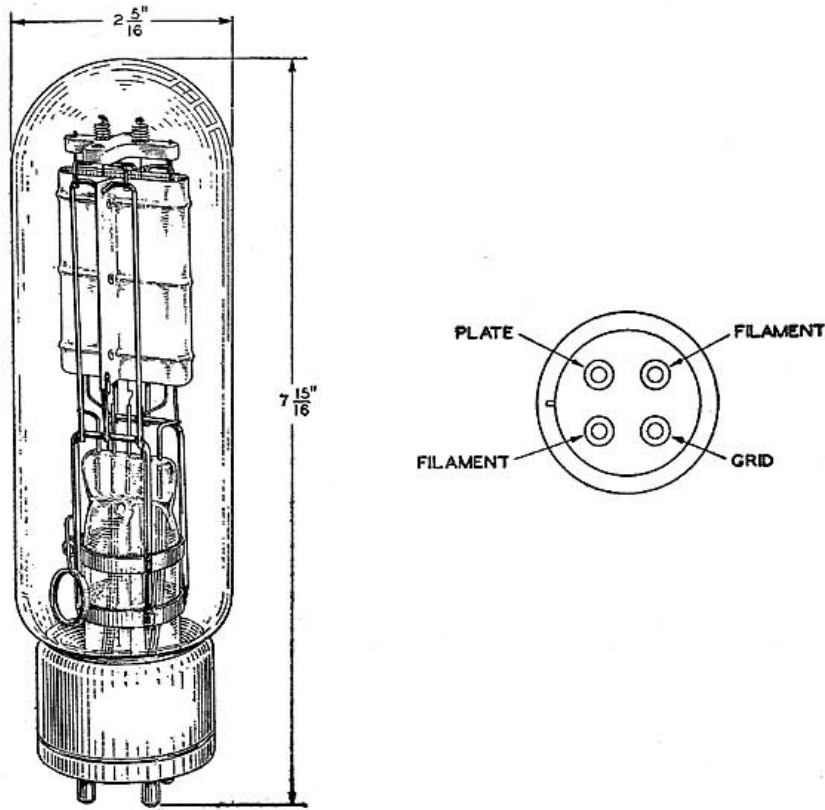


276A Vacuum Tube



Classification

The No. 276A Vacuum Tube is a three-element tube used as an oscillator, radio-frequency amplifier, modulator or audio-frequency amplifier.

Base and Socket

The No. 276A Vacuum Tube employs a standard four-prong bayonet pin type base suitable for use in a Western Electric No. 112A or similar type socket. The arrangement of electrode connections to the base terminals is shown above.

General Ratings and Information

Filament Voltage.....	10 Volts, AC
Nominal Filament Current.....	3 Amperes
Maximum Plate Voltage.....	1,250 Volts
Maximum Plate Current.....	0.125 Ampere
Average Plate Resistance.....	3,500 Ohms
Average Amplification Factor.....	12
Approximate Direct Interelectrode Capacities	
Plate to Grid.....	9 MMF
Plate to Filament.....	4 MMF
Grid to Filament.....	6 MMF

Audio-Amplifier or Modulator Rating—Peak Grid Drive equal to or less than the bias—Class A Service.

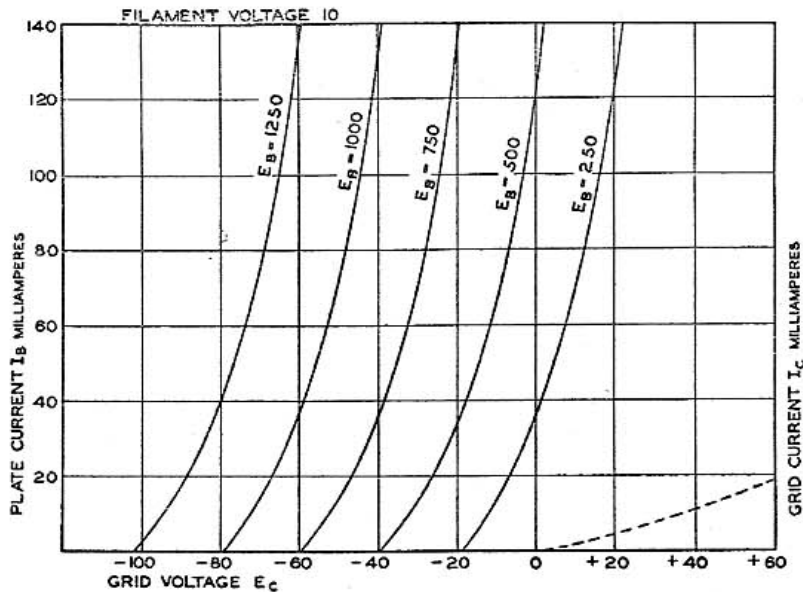
Maximum Plate Voltage.....	1,000
Maximum Plate Current.....	0.85 Ampere
Maximum Plate Dissipation.....	85 Watts
Grid Bias Voltage.....	—50 Volts
Load Impedance.....	7,000 Ohms
Undistorted Output.....	10 Watts

Radio-Frequency Amplifier—Grid Bias practically at cut-off, grid drive higher than the bias—Class B Service.

Maximum Plate Voltage.....	1,250
Maximum Plate Current.....	0.125 Ampere
Maximum Plate Dissipation.....	100 Watts
Grid Bias Voltage.....	—100 Volts
Peak Output.....	100 Watts

Oscillator or Radio-Frequency Amplifier—Grid Bias below Cut-Off—Class C Service.

Maximum Modulated Plate Voltage (DC).....	1,000 Volts
Maximum Non-modulated Plate Voltage (DC).....	1,250 Volts
Maximum Plate Current.....	0.125 Ampere
Maximum Plate Dissipation.....	100 Watts
Maximum Radio-Frequency Charging Current in Grid and Plate Leads.....	5 Amperes
Approximate Grid Bias.....	—150 Volts
Maximum Output.....	100 Watts



Average Static Characteristics

The accompanying curves give the average static characteristics of the No. 276A Vacuum Tube. These curves are taken with the filament operating on alternating current and with the plate and grid returns connected to a center point on the filament transformer.

General Features

The electrical characteristics of the No. 276A Vacuum Tube are substantially the same as the No. 242A Vacuum Tube except for interelectrode capacities and filament resistance. In the design of the No. 276A Vacuum Tube, special attention has been given to obtain low interelectrode capacities. This permits of satisfactory operation over a wide frequency range. With a filament potential drop of 10 volts, the filament current range of the No. 276A Vacuum Tube is 2.8 to 3.2 amperes while for the No. 242A Vacuum Tube, the filament current range is 3.0 to 3.4 amperes. Thoriated tungsten is used for the filament in both tubes.

This Vacuum Tube has an unusually rugged type of structure which insures it against breakage in shipment and service and makes possible the maintenance of uniform electrical characteristics.