



**TRIODE
AUDIO-FREQUENCY AMPLIFIER**

Western Electric

DESCRIPTION

The 264C is a filamentary type triode designed for use as an audio-frequency amplifier in applications requiring low tube noise or high input resistance.

CHARACTERISTICS

| | |
|---------------------------------|-----------|
| Filament Voltage | 1.5 volts |
| Maximum Plate Voltage | 135 volts |
| Amplification Factor | 7.2 |

GENERAL CHARACTERISTICS

ELECTRICAL DATA

| | |
|--|------------------|
| Filament Voltage | 1.5 volts |
| Filament Current | 300 milliamperes |
| Direct Interelectrode Capacitances (without external shield) | |
| Grid to Plate | 4.9 uuf |
| Input | 3.0 uuf |
| Output | 2.6 uuf |

MECHANICAL DATA

| | |
|-----------------------------|-----------------|
| Cathode | Coated Filament |
| Bulb | T9 |
| Base | Small 4-pin |
| Mounting Position | Any |

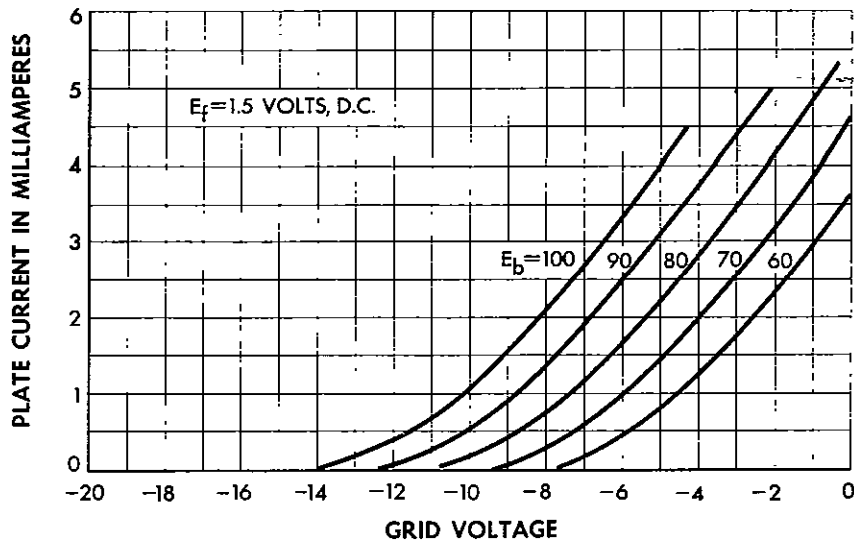
Dimensions and pin connections shown in outline drawing on Page 4

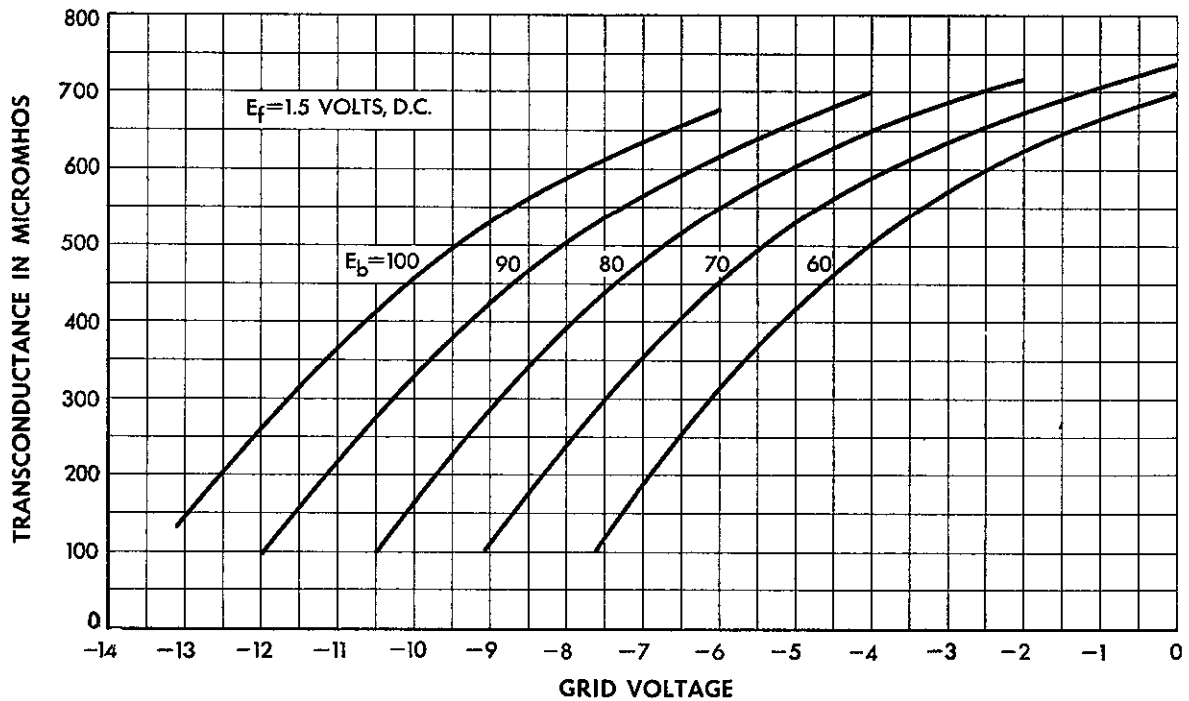
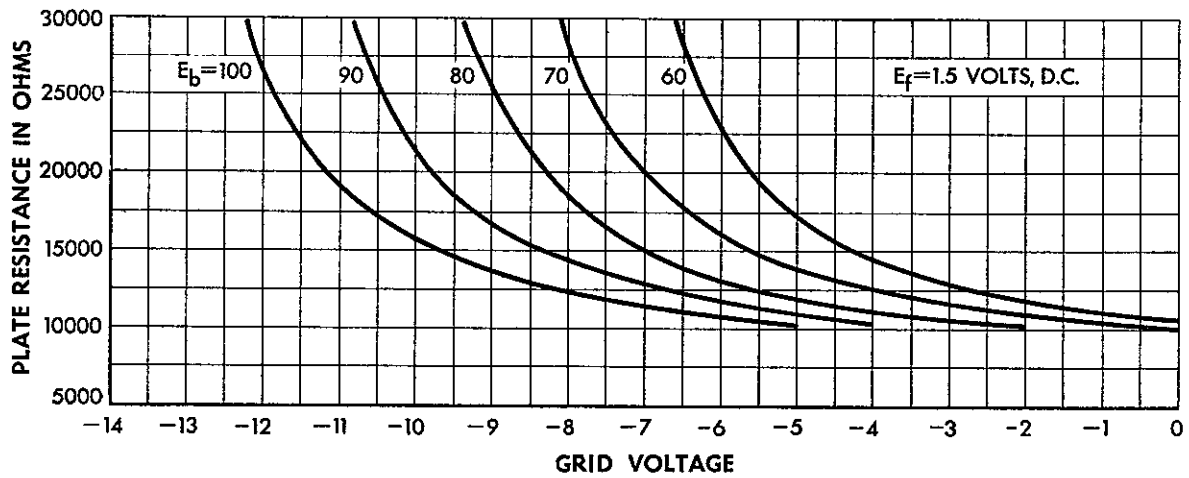
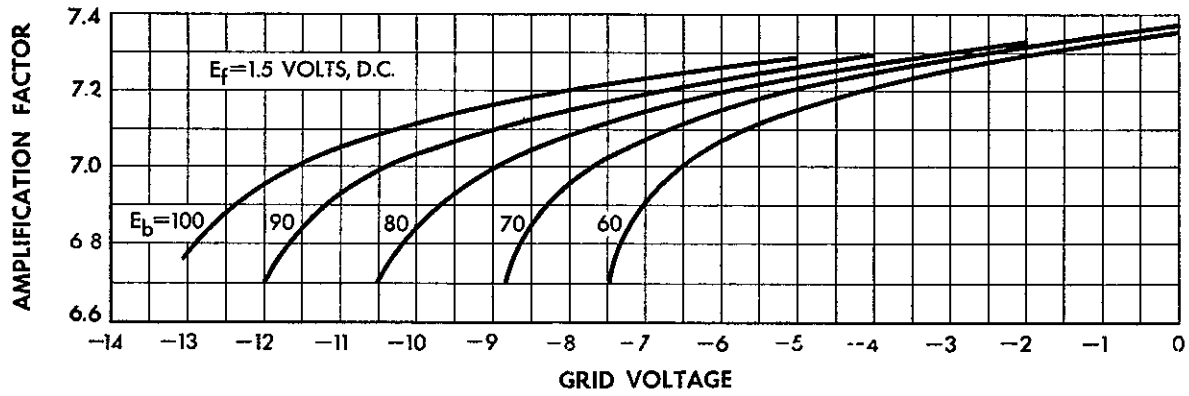
MAXIMUM RATINGS, Design-Center Values

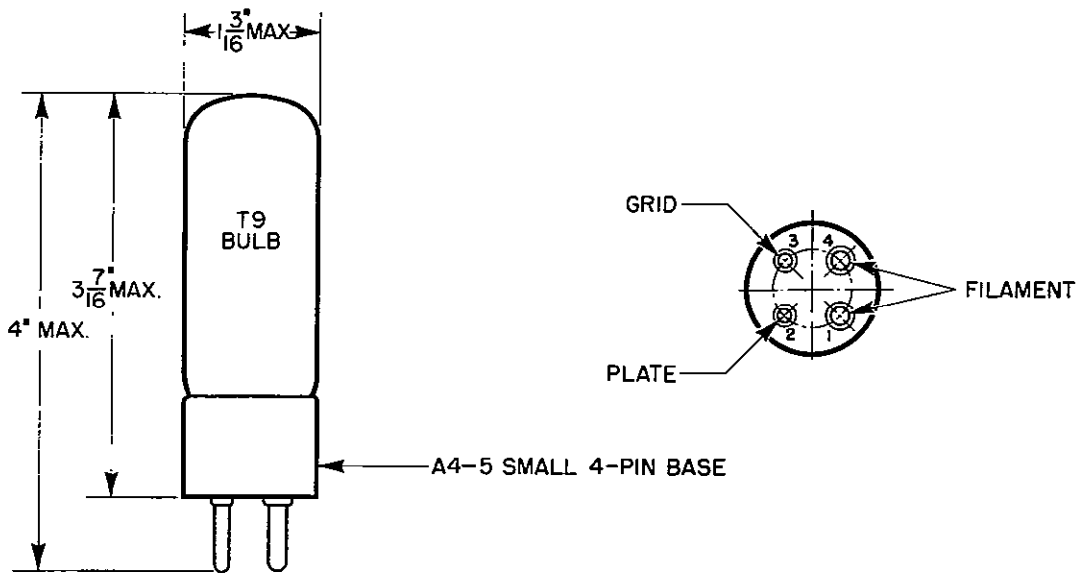
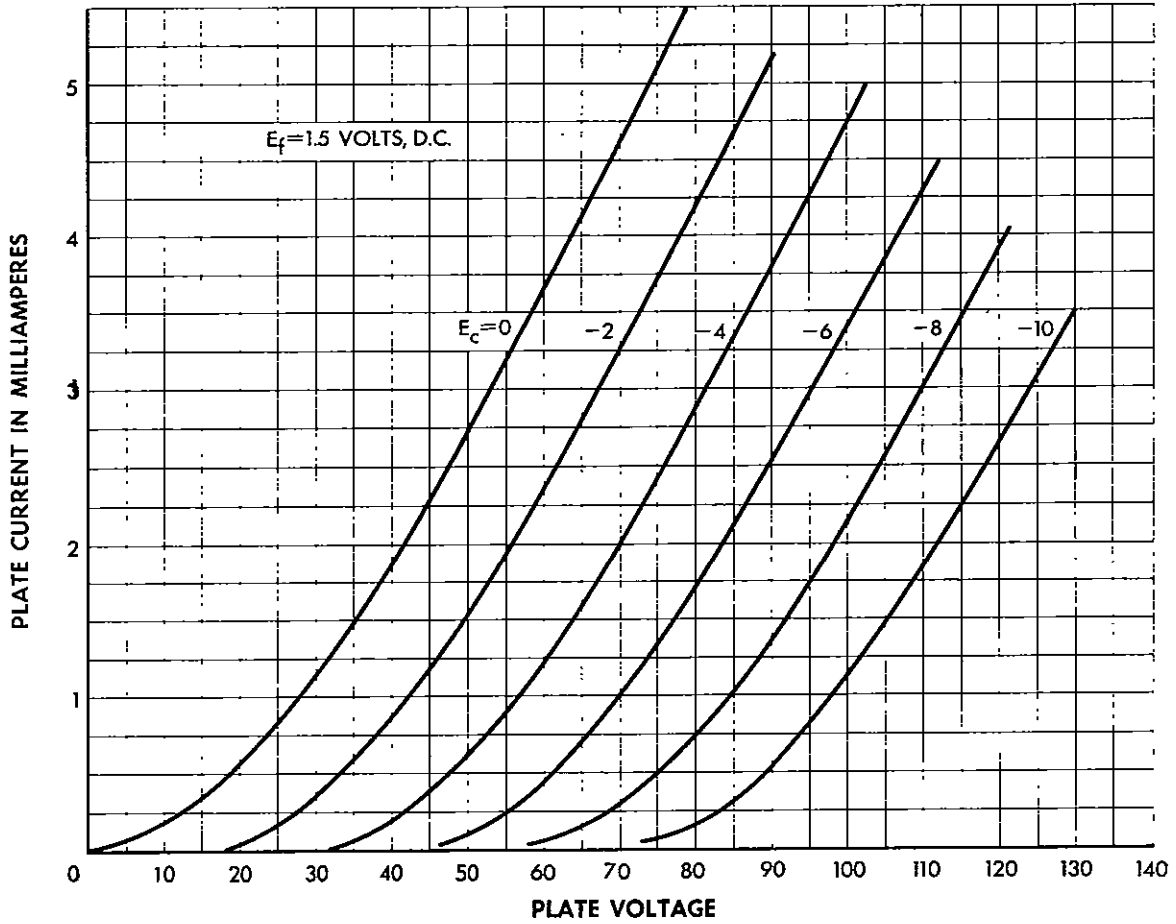
| | |
|-------------------------|------------------|
| Plate Voltage | 135 volts |
| Plate Current | 3.5 milliamperes |

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS — CLASS A₁ AMPLIFIER

| | | |
|---|-------|-------------------|
| Plate Voltage | 60 | 100 volts |
| Grid Voltage | -2 | -8 volts |
| Peak A-F Grid Voltage | 2 | 8 volts |
| Plate Current | 2.35 | 2.10 milliamperes |
| Transconductance | 620 | 580 micromhos |
| Amplification Factor | 7.3 | 7.2 |
| Plate Resistance | 11700 | 12400 ohms |
| Load Resistance | 23400 | 24800 ohms |
| Maximum Signal Power Output | 2.1 | 30 milliwatts |
| Total Harmonic Distortion Less Than | 1 | 3 per cent |







Western Electric

A development of Bell Telephone Laboratories, the research laboratories of the American Telephone and Telegraph Company and the Western Electric Company.