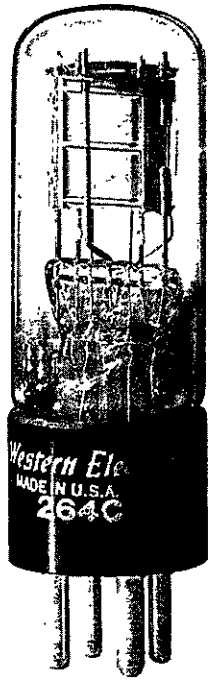


TRIODE
AUDIO-FREQUENCY AMPLIFIER

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

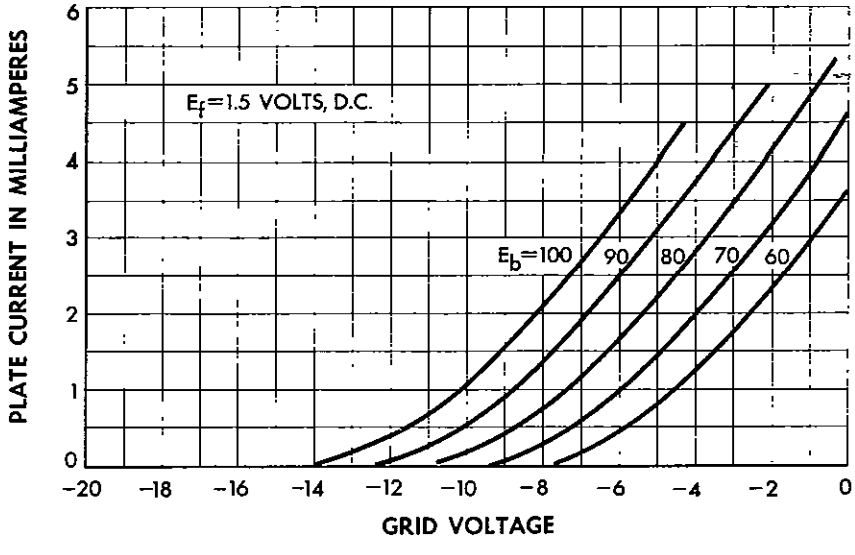
Dimensions and pin connections shown in outline drawing on Page 4

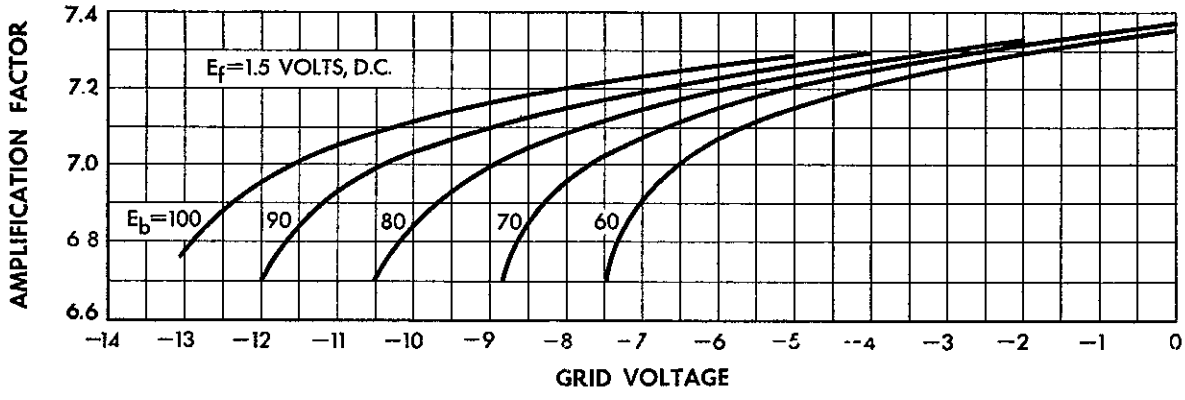
MAXIMUM RATINGS, Design-Center Values

Plate Voltage	135 volts
Plate Current	3.5 milliamperes

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS — CLASS A_1 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




AMPLIFICATION FACTOR
7.4
7.2
7.0
6.8
6.6
E_f=1.5 VOLTS, D.C.
E_b=100
90
80
70
60
−14 −13 −12 −11 −10 −9 −8 −7 −6 −5 −4 −3 −2 −1 0
GRID VOLTAGE

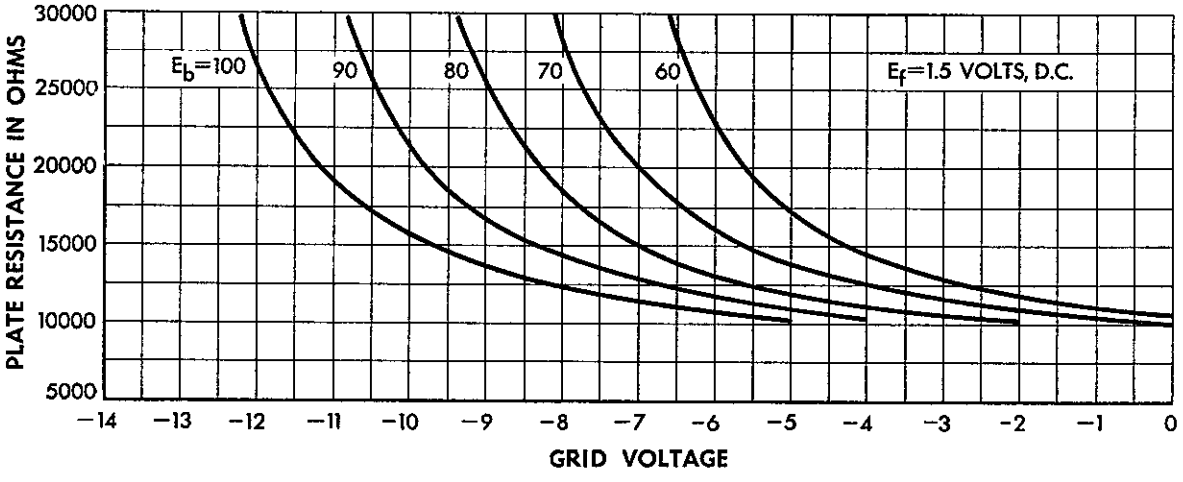
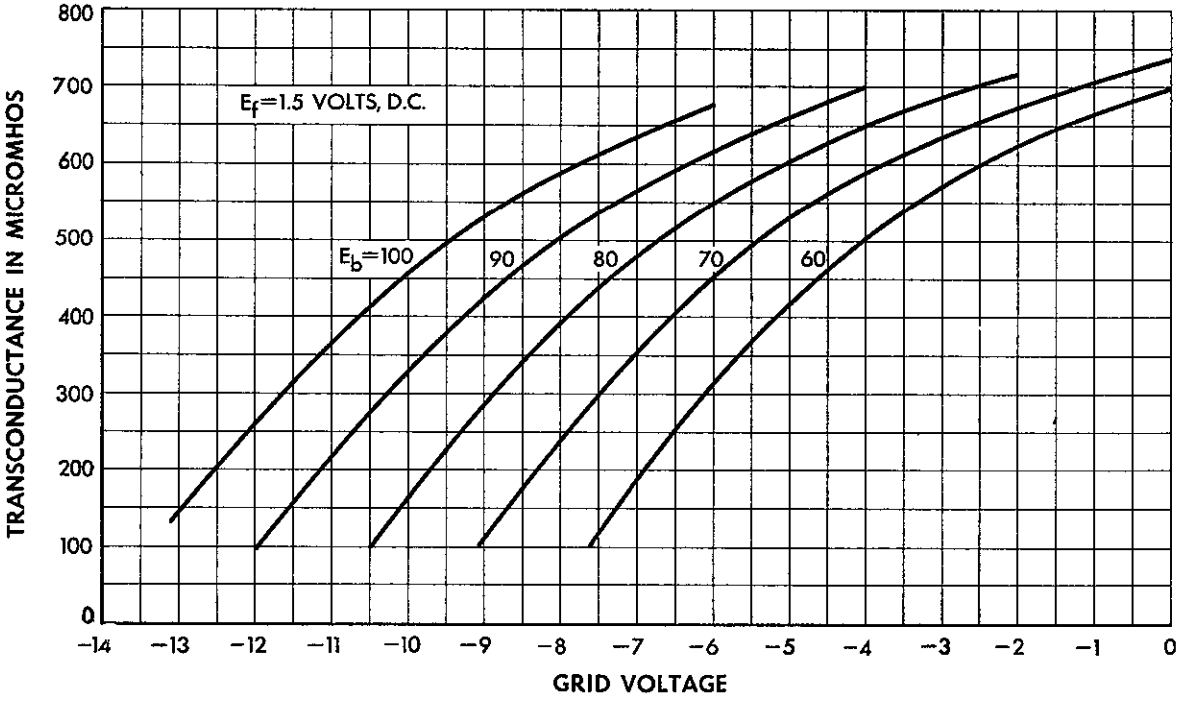
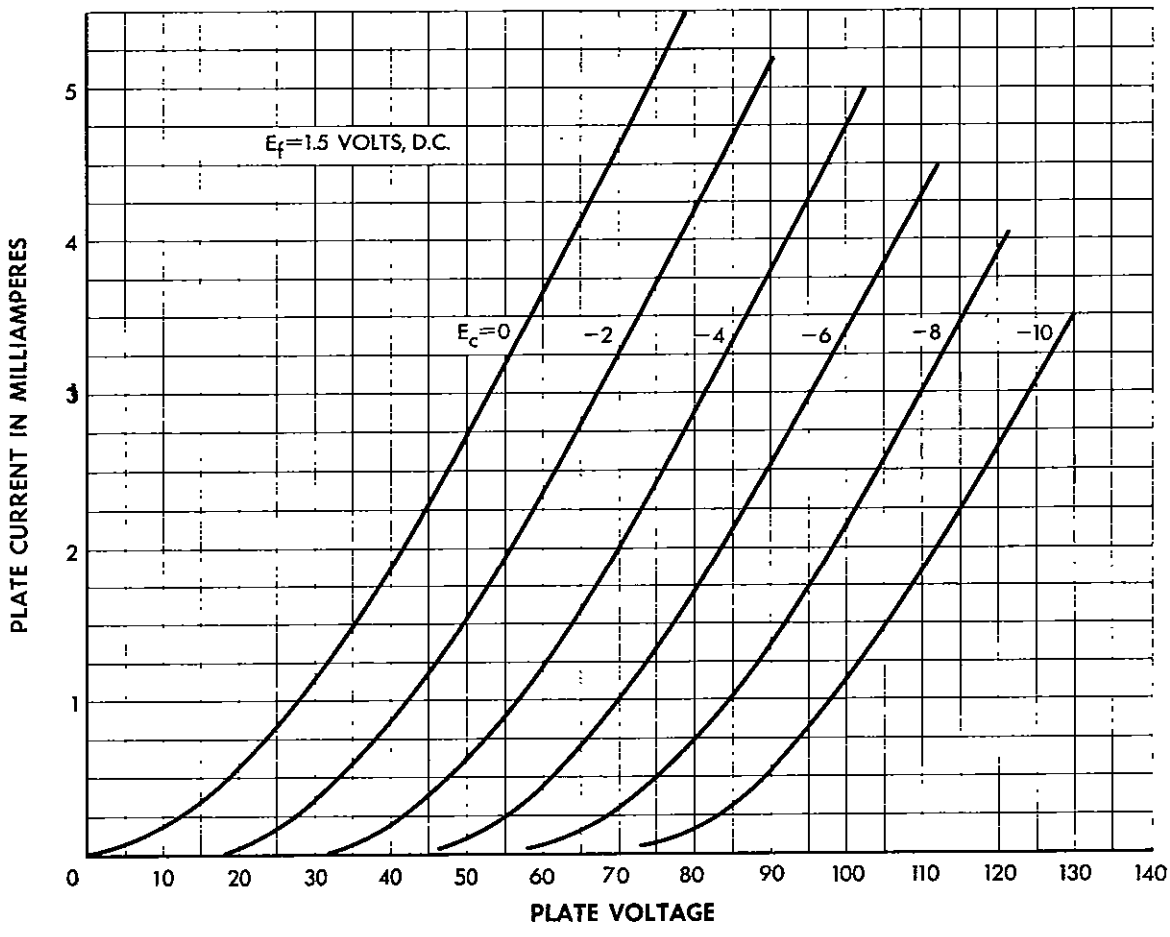
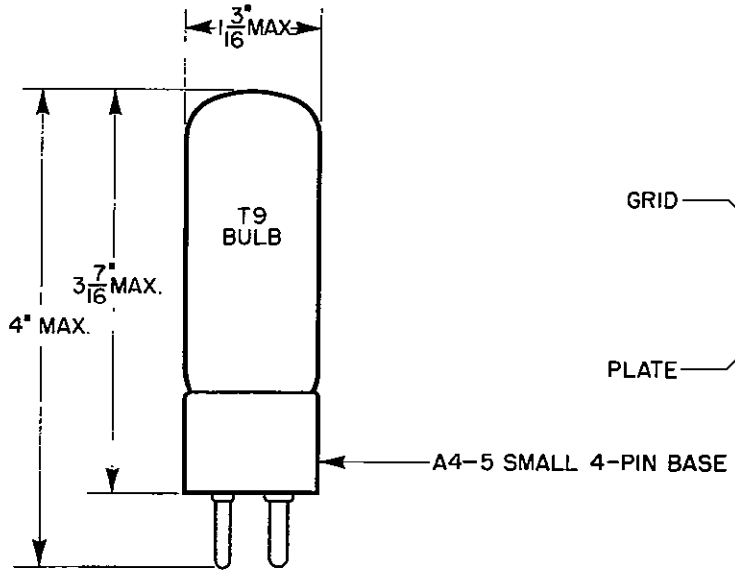
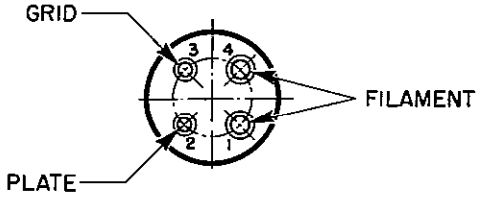


PLATE RESISTANCE IN OHMS
30000
25000
20000
15000
10000
5000
E_b=100
90
80
70
60
E_f=1.5 VOLTS, D.C.
−14 −13 −12 −11 −10 −9 −8 −7 −6 −5 −4 −3 −2 −1 0
GRID VOLTAGE


TRANSCONDUCTANCE IN MICROMHOS
800
700
600
500
400
300
200
100
0
E_f=1.5 VOLTS, D.C.
E_b=100
90
80
70
60
−14 −13 −12 −11 −10 −9 −8 −7 −6 −5 −4 −3 −2 −1 0
GRID VOLTAGE







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