



PENTODE

Western Electric

DESCRIPTION

The 374A is a filamentary type suppressor grid power pentode. It is designed for use as an audio-frequency power amplifier or as an oscillator.

CHARACTERISTICS

Filament Voltage, A-C		3.0 volts
Plate Current	$E_b = E_{c2} = 150$ volts; $E_{c1} = -18$ volts; $E_{c3} = 0$	24 milliamperes
Transconductance		3400 micromhos
Power Output		2.0 watts

GENERAL CHARACTERISTICS

ELECTRICAL DATA

Filament Voltage, A-C	3.0 volts
Filament Current	0.53 ampere
Direct Interelectrode Capacitances	
Grid to Plate	0.18 uuf
Input	9.2 uuf
Output	6.5 uuf

MECHANICAL DATA

Cathode	Coated Filament
Bulb	T11
Base ¹	Short intermediate shell, 7-pin octal
Mounting Position	Vertical — or horizontal with plane of filament vertical.

Dimensions and pin connections shown in outline drawing on Page 6

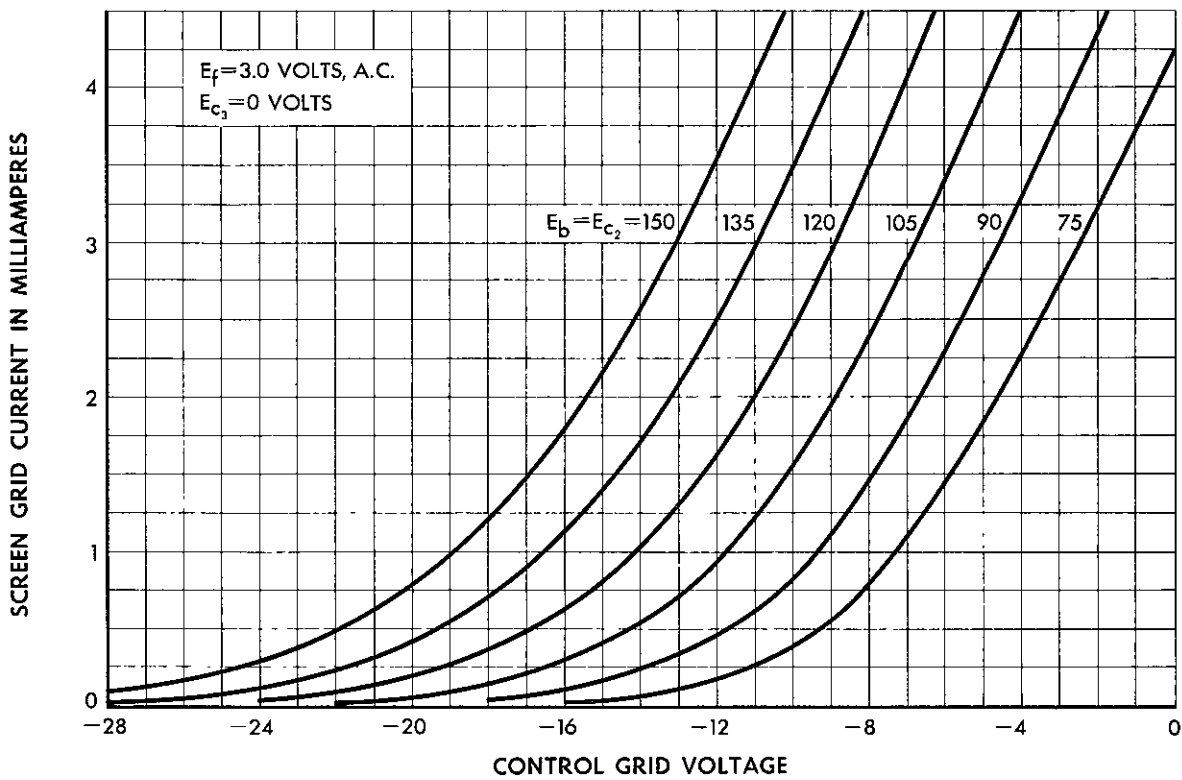
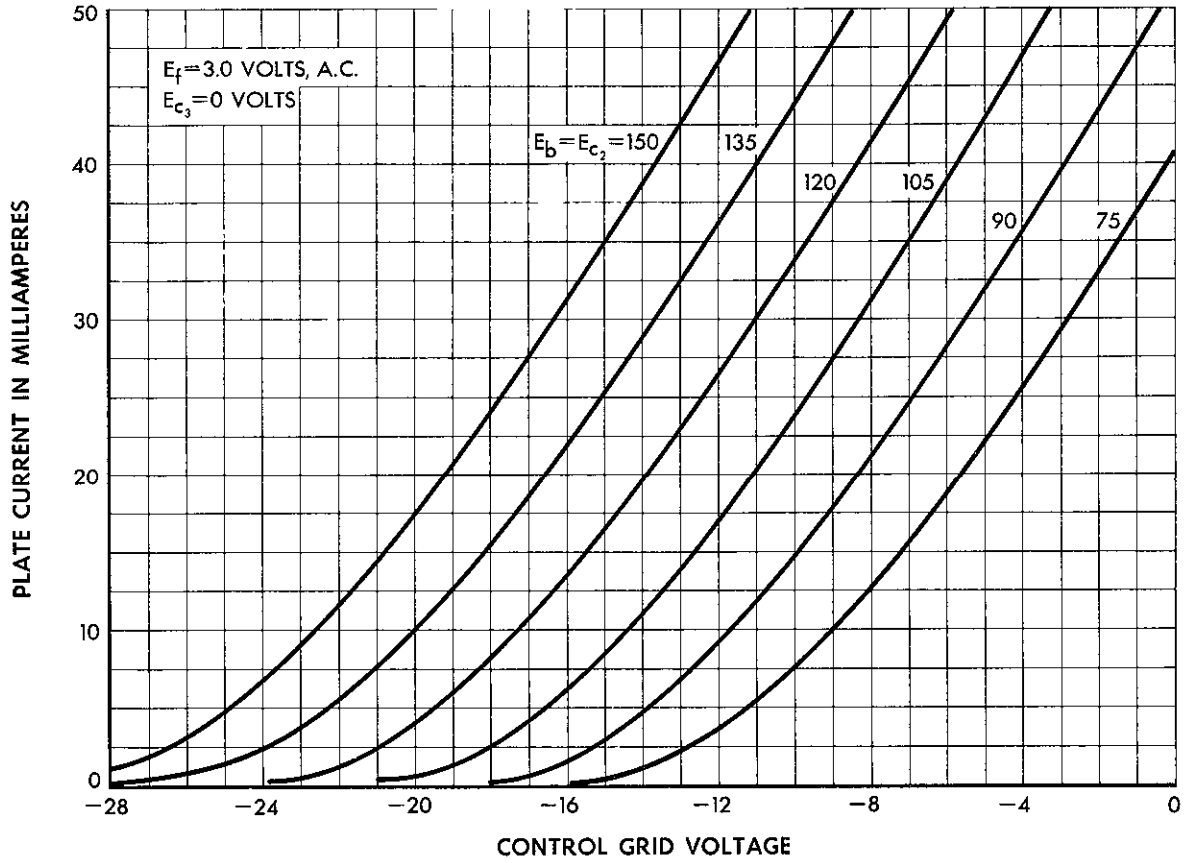
MAXIMUM RATINGS, Design-Center Values

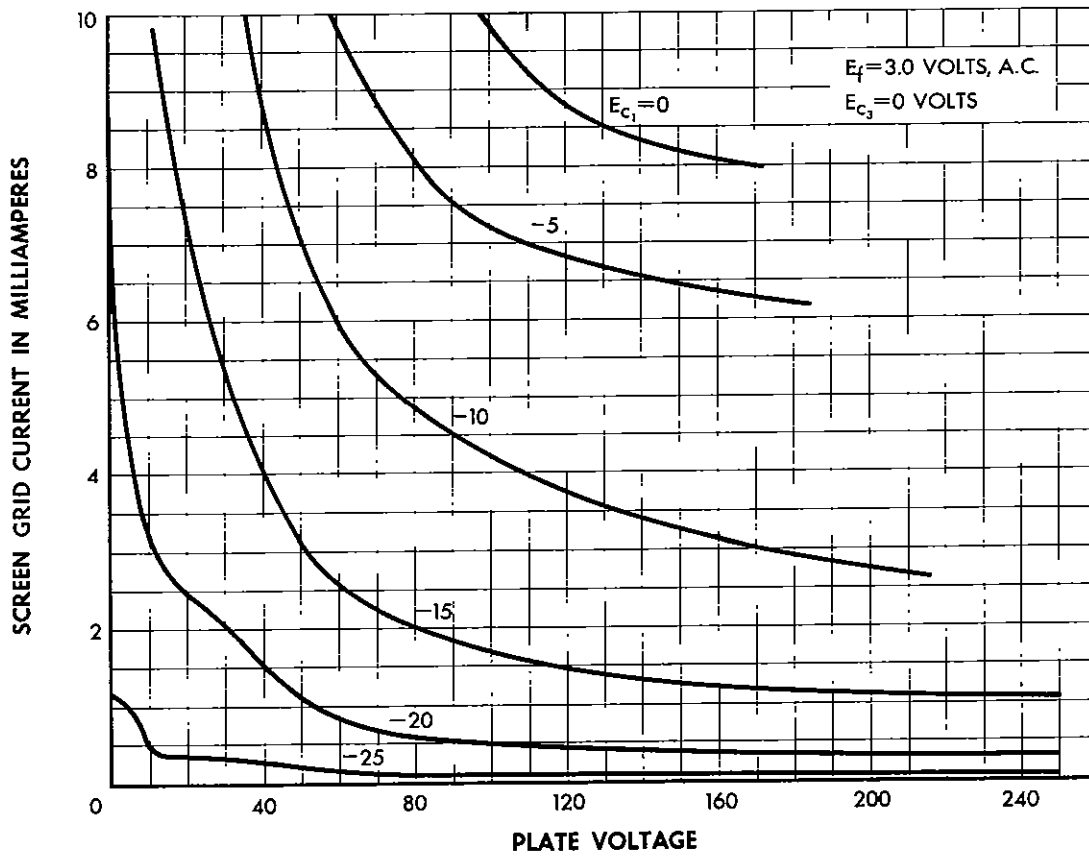
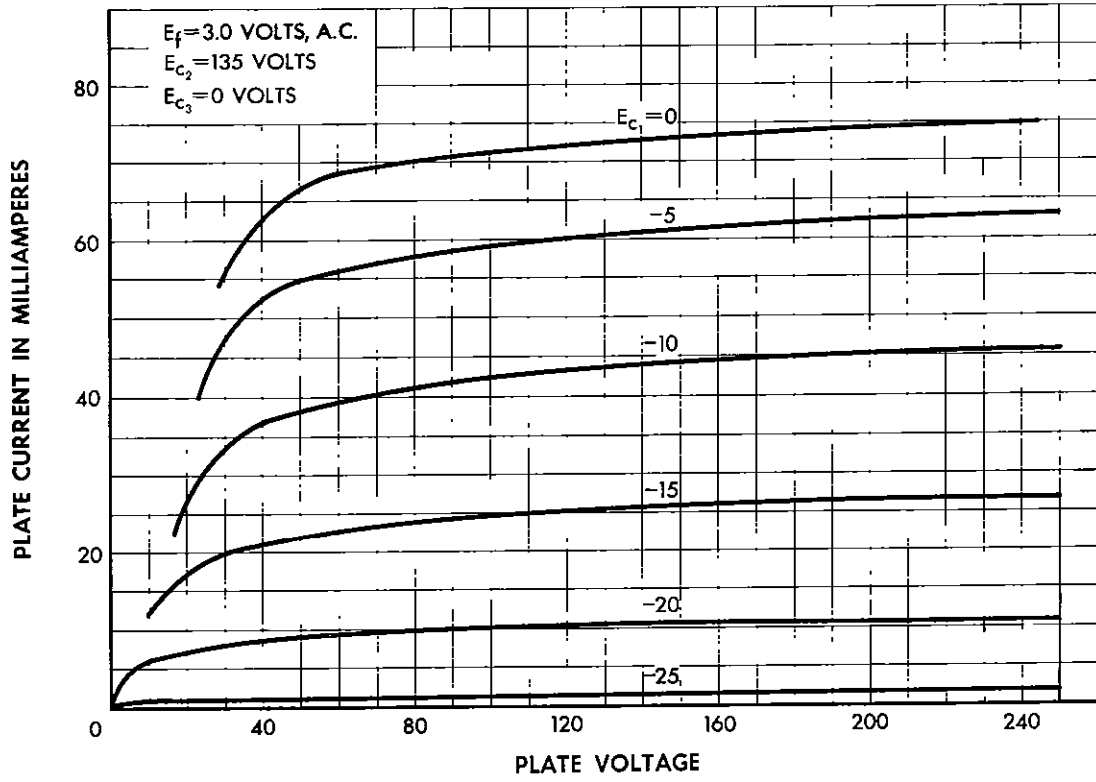
Plate Voltage	150 volts
Screen Grid Voltage	150 volts
Plate Dissipation	4.8 watts
Screen Grid Dissipation	1.0 watt

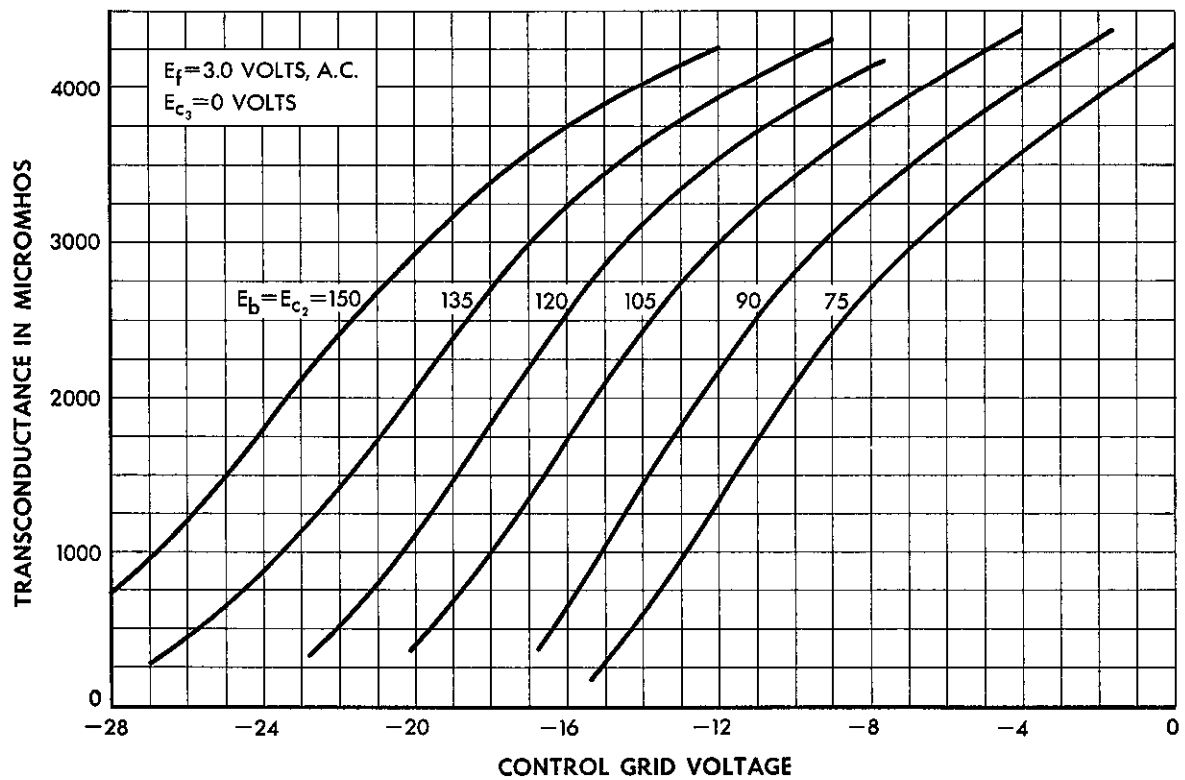
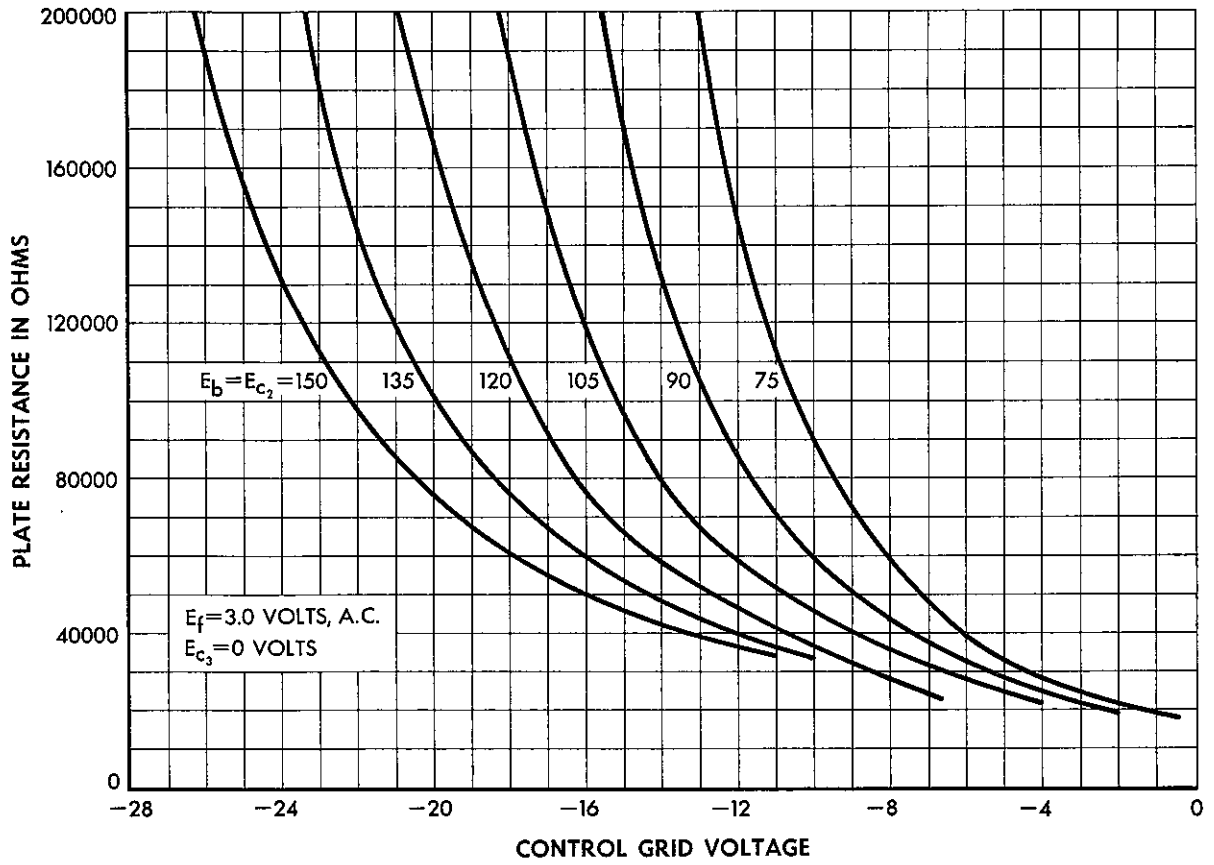
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

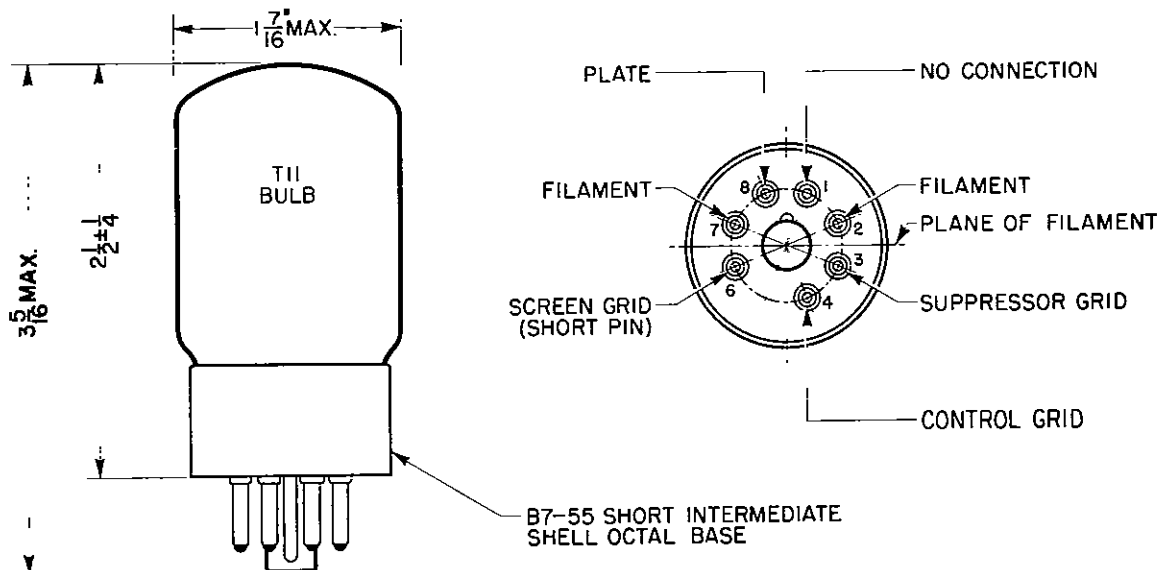
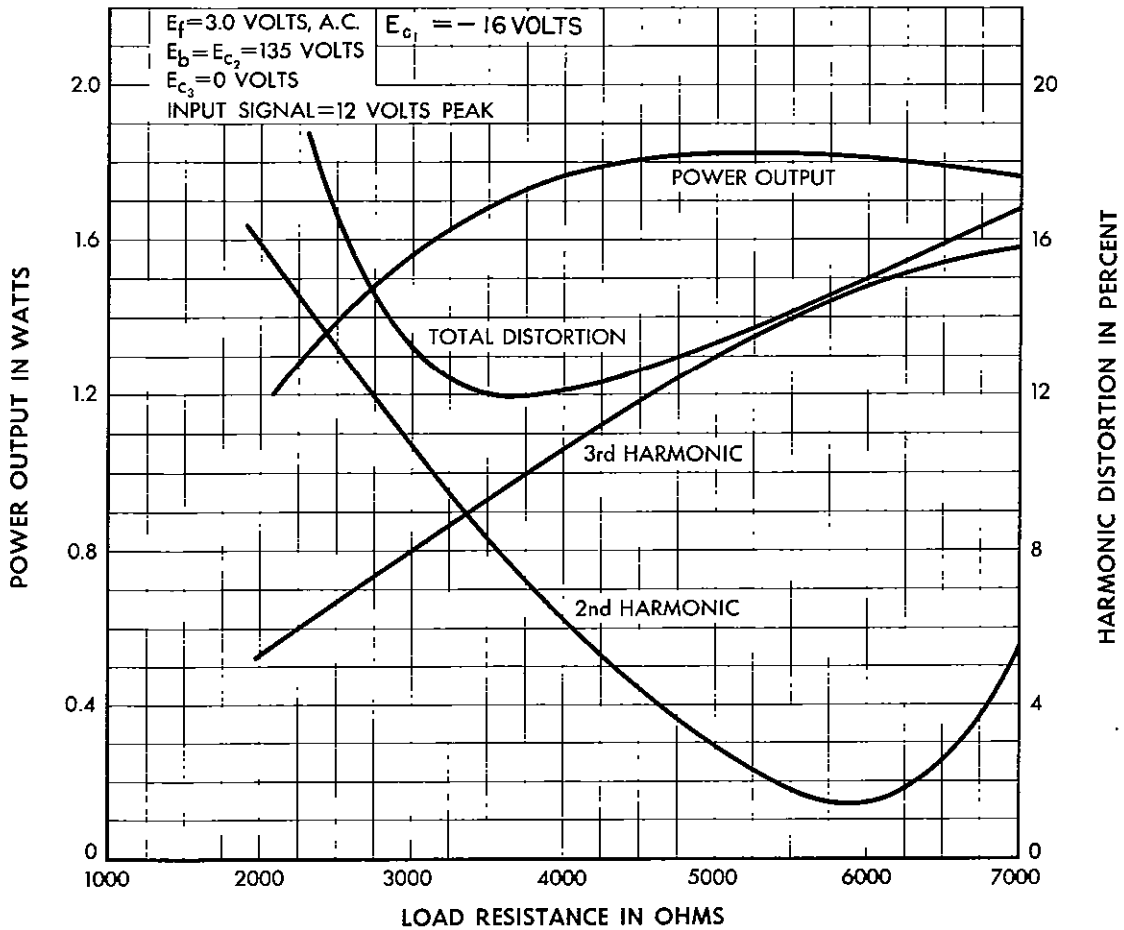
Filament Voltage, A-C	3.0	3.0 volts
Plate Voltage	135	150 volts
Screen Grid Voltage	135	150 volts
Control Grid Voltage	-16	-18 volts
Suppressor Grid Voltage	0	0 volts
Peak A-F Grid Voltage	12	12 volts
Zero Signal Plate Current	22	24 milliamperes
Maximum Signal Plate Current	24.5	26 milliamperes
Zero Signal Screen Grid Current	1.1	1.2 milliamperes
Maximum Signal Screen Grid Current	5.5	4.8 milliamperes
Transconductance	3250	3400 micromhos
Plate Resistance	60000	60000 ohms
Load Resistance	4500	4000 ohms
Maximum Signal Power Output	1.8	2.0 watts
Total Harmonic Distortion	12.5	12.0 per cent

1. Pin # 6 is approximately 3/32 inch shorter than the other pins to minimize noise when changing tubes while in service.









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