



# TRIODE

## DESCRIPTION

The GL-842 is a three-electrode, low-mu tube, containing a filament of the thoriated-tungsten type. Because this tube is primarily used as a Class

A power amplifier, it is useful as a modulator in low-power transmitting equipment. The GL-842 is equipped with a medium 4-pin bayonet base.

## TECHNICAL INFORMATION

*These data are for reference only. For design information refer to specifications.*

### GENERAL CHARACTERISTICS

Number of electrodes . . . . .	3
<b>Electrical</b>	
Cathode—Filamentary	
Filament voltage . . . . .	7.5 volts
Filament current . . . . .	1.25 amperes
Direct interelectrode capacitances:	
Grid-plate . . . . .	6.4 micromicrofarads
Grid-filament . . . . .	3.2 micromicrofarads
Plate-filament . . . . .	2.6 micromicrofarads
<b>Mechanical</b>	
Base . . . . .	medium 4-pin bayonet
Net weight, approx . . . . .	3 ounces
Shipping weight, approx . . . . .	3 pounds
Mounting position . . . . .	vertical, base down— horizontal, plane of plate vertical.



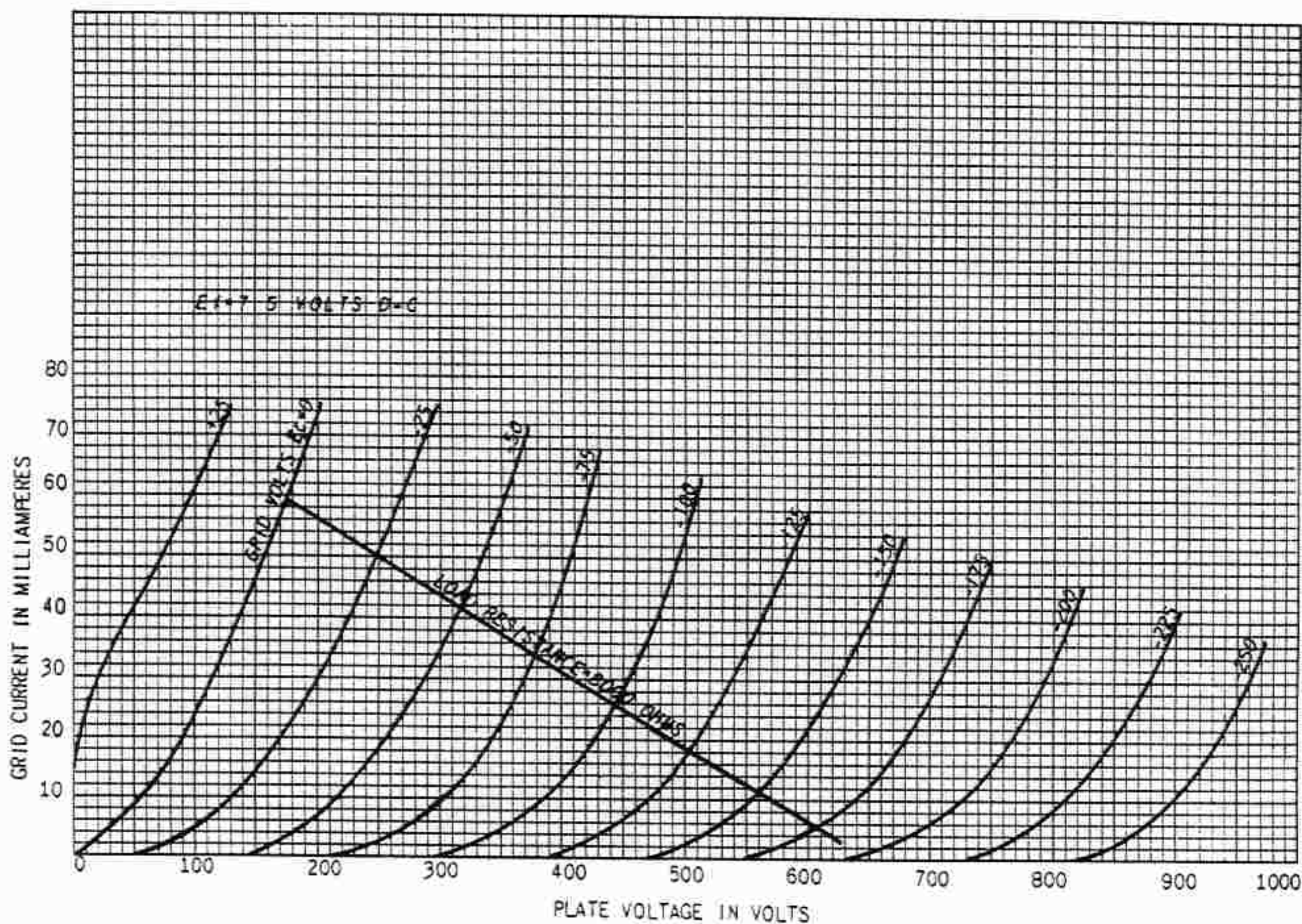
TECHNICAL INFORMATION (CONT'D)

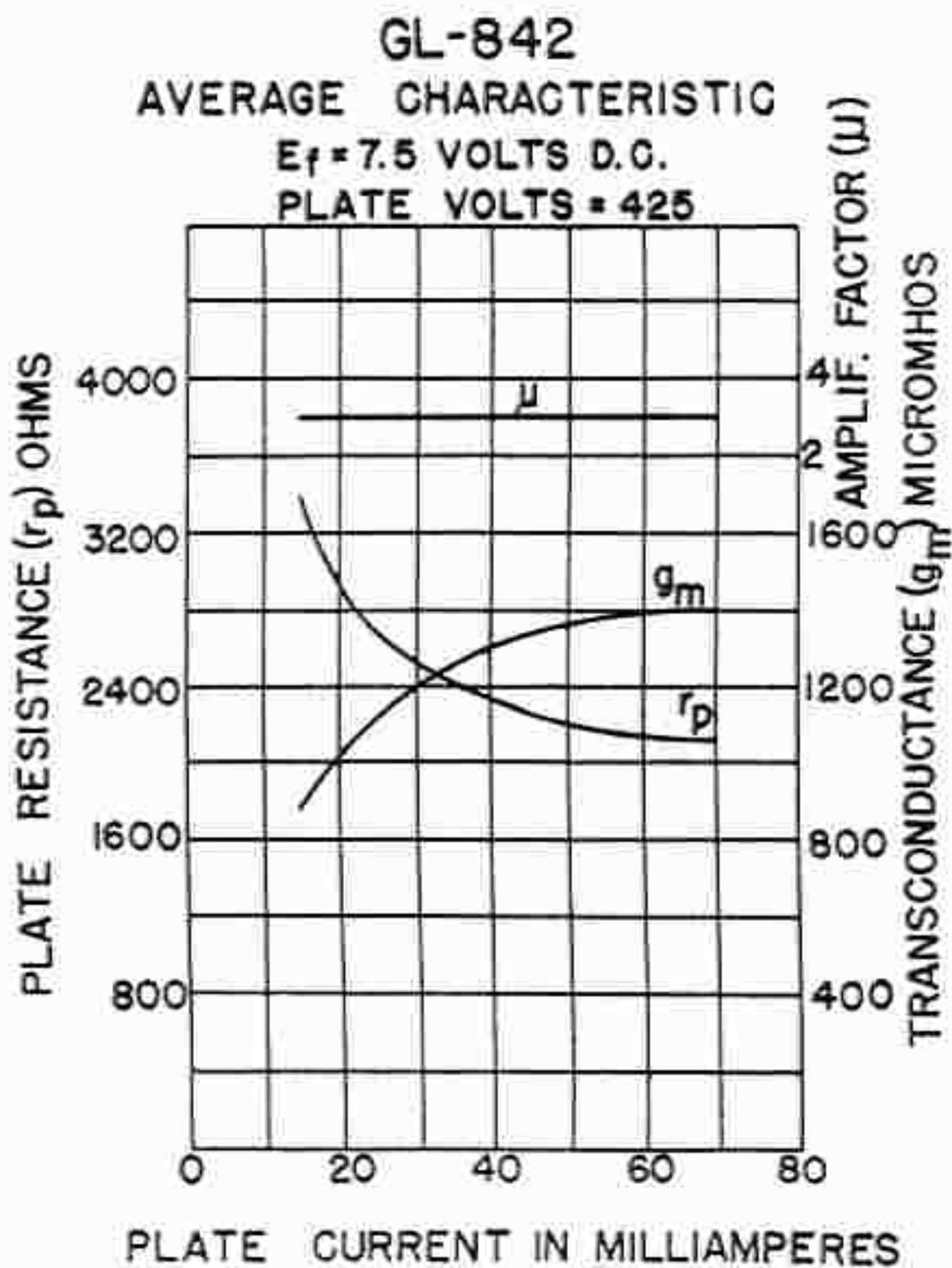
MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

	Typical Operation	Maximum Ratings	
AS AUDIO-FREQUENCY AMPLIFIER AND MODULATOR—CLASS A			
D-c plate voltage	350	425	425 volts
Plate dissipation			12 watts
D-c grid voltage*	-72	-100	volts
Peak a-f grid voltage	67	95	volts
D-c plate current	34	28	milliamperes
Plate resistance	2400	2500	ohms
Amplification factor	3	3	
Transconductance	1250	1200	micromhos
Load resistance	5000	8000	ohms
Cathode-bias resistor	2120	3570	ohms
Undistorted power output	2.1	3.0	watts

\* Grid voltages are given with respect to the mid-point of filament operated on alternating current. If direct current is used, each stated value of grid voltage should be decreased by 5 volts and the circuit returns made to the negative end of the filament.

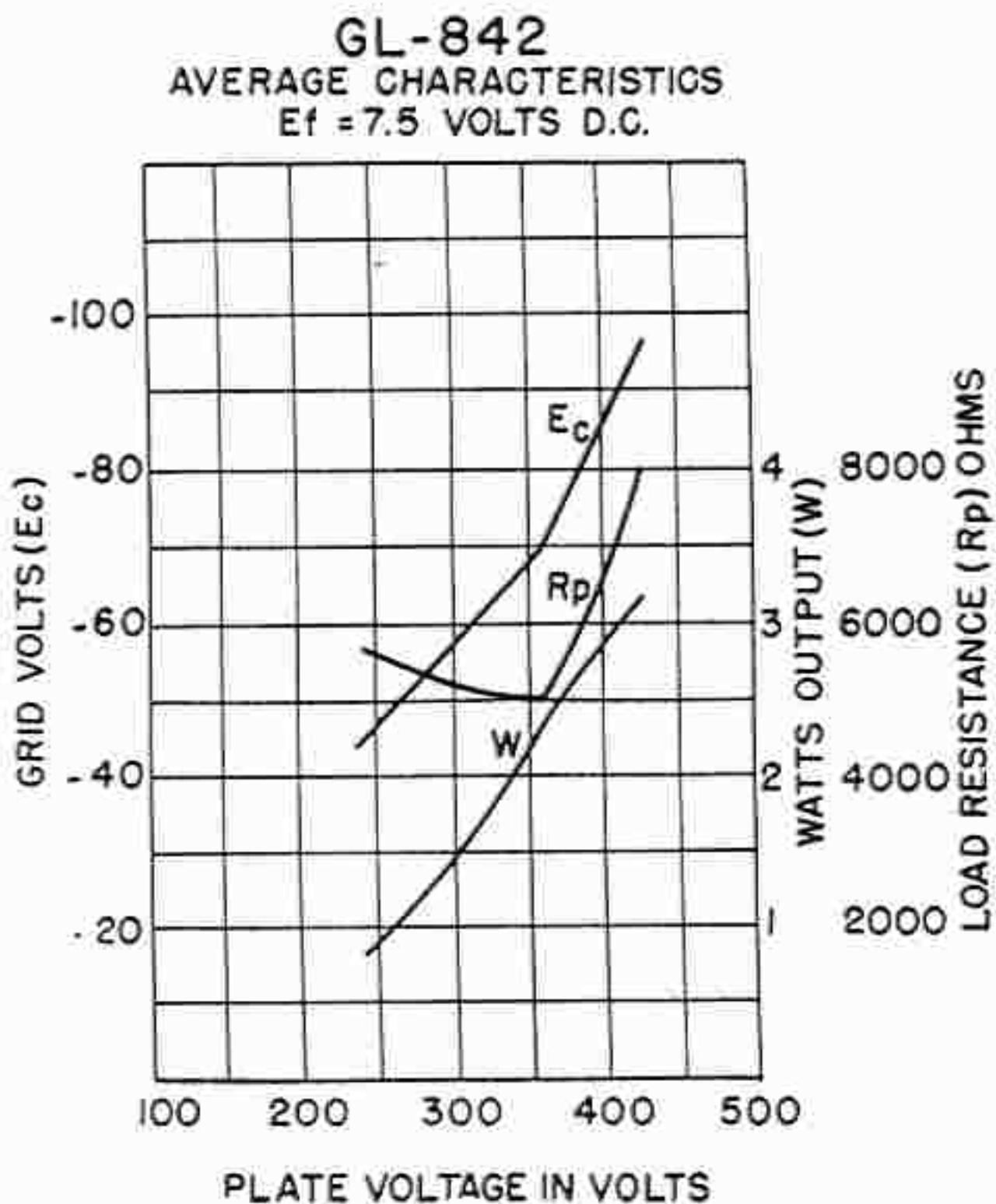
6L842 AVERAGE PLATE CHARACTERISTICS





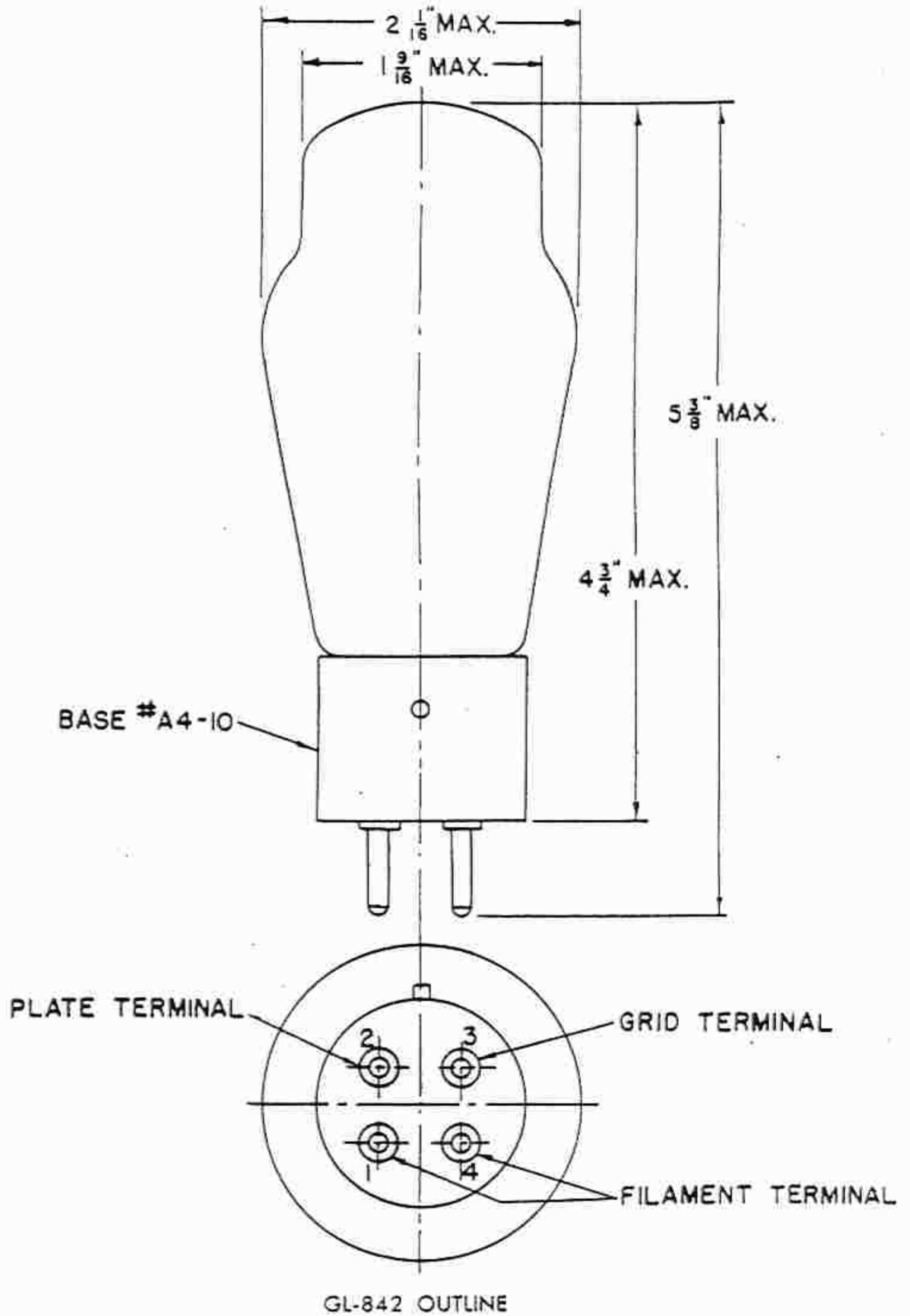
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