

TRIODE

DESCRIPTION

The GL-5C24 is a three-electrode tube designed for use as a Class A and Class AB₁ amplifier. The anode is capable of dissipating 160 watts and cool-

ing is accomplished by radiation. The cathode is a thoriated-tungsten filament.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Electrical	Min.	Bogey	Max.
Filament voltage	9.5	10	10.5 volts
Filament current at bogey filament voltage	4.9	5.2	5.6 amperes
Amplification factor	7.2	8	8.8
Transconductance ($I_b = 160$ ma)	—	5500	— micromhos
Interelectrode capacitance			
Grid-plate	7.6	8.8	10.0 micromicrofarads
Grid-cathode	4.6	5.6	6.6 micromicrofarads
Plate-cathode	2.5	3.3	4.1 micromicrofarads
Mechanical			
Mounting position	Vertical, or horizontal with plane of electrodes vertical		
Maximum glass temperature	275 centigrade		
Net weight, approximate	14 ounces		



GENERAL ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

AUDIO-FREQUENCY POWER AMPLIFIER AND MODULATOR—CLASS A

Maximum Ratings, Absolute Values

CCS

D-c plate voltage.....	1750 volts
Plate input.....	250 watts
Plate dissipation.....	160 watts

Typical Operation

D-c plate voltage.....	1500 volts
D-c grid voltage.....	-155 volts
Peak a-f grid voltage.....	150 volts
D-c plate current.....	107 milliamperes
Load resistance.....	8200 ohms
Power output (5% second harmonic).....	55 watts

AUDIO-FREQUENCY POWER AMPLIFIER AND MODULATOR—CLASS AB₁

Maximum Ratings, Absolute Ratings (per Tube)

CCS

D-c plate voltage.....	1750 volts
D-c grid voltage.....	-300 volts
Maximum signal d-c plate current*.....	250 milliamperes
Maximum signal plate input*.....	300 watts
Plate dissipation*.....	160 watts

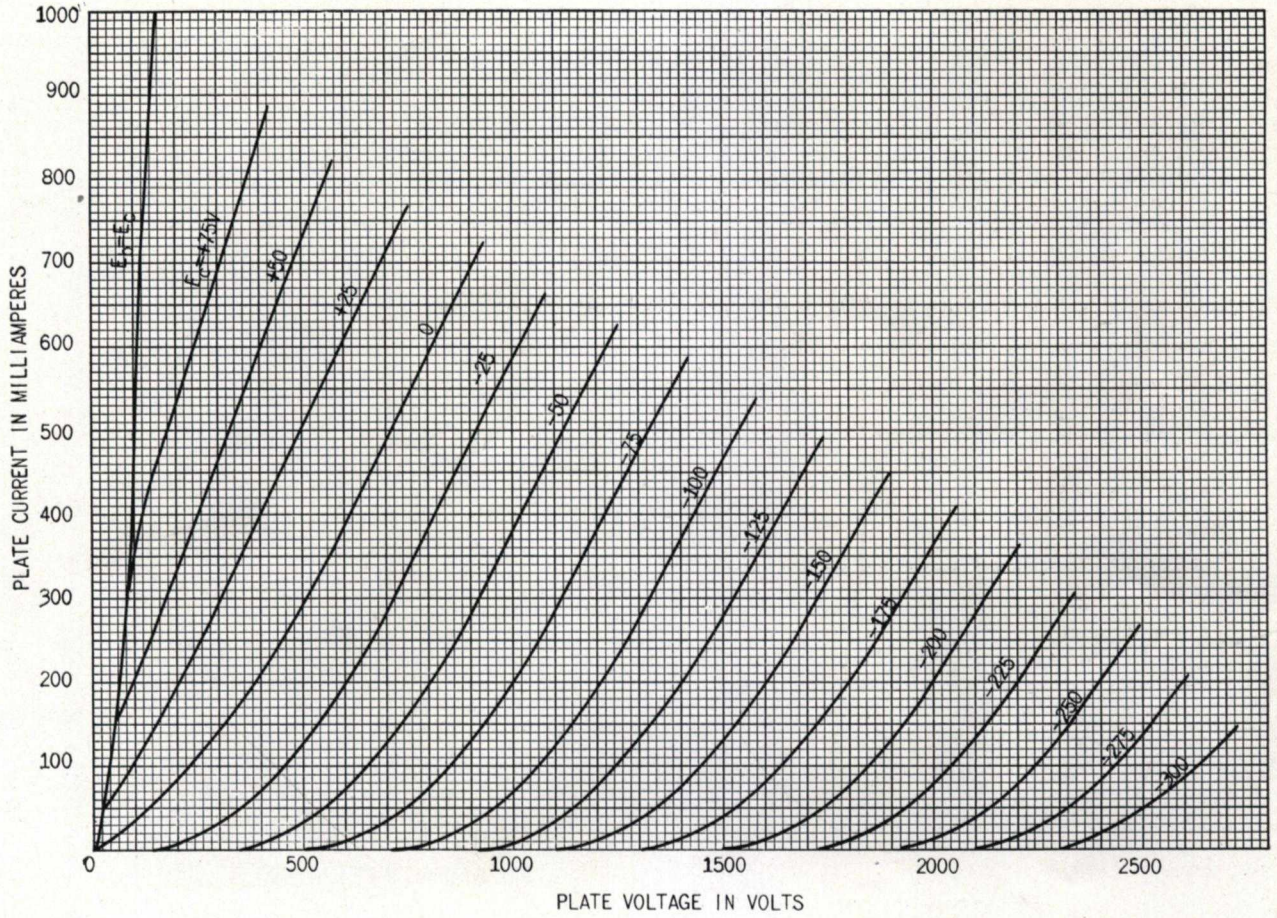
Typical Operation

Unless Otherwise Specified, Values Are for Two Tubes

D-c plate voltage.....	1750 volts
D-c grid voltage.....	-200 volts
Peak a-f grid-to-grid voltage.....	390 volts
Zero signal d-c plate current.....	110 milliamperes
Maximum signal d-c plate current.....	320 milliamperes
Effective load resistance, plate-to-plate.....	8000 ohms
Maximum signal power output.....	240 watts

*Averaged over any audio-frequency cycle of sine-wave form.

GL-5C24
PLATE CHARACTERISTICS
 $E_c = 10$ V



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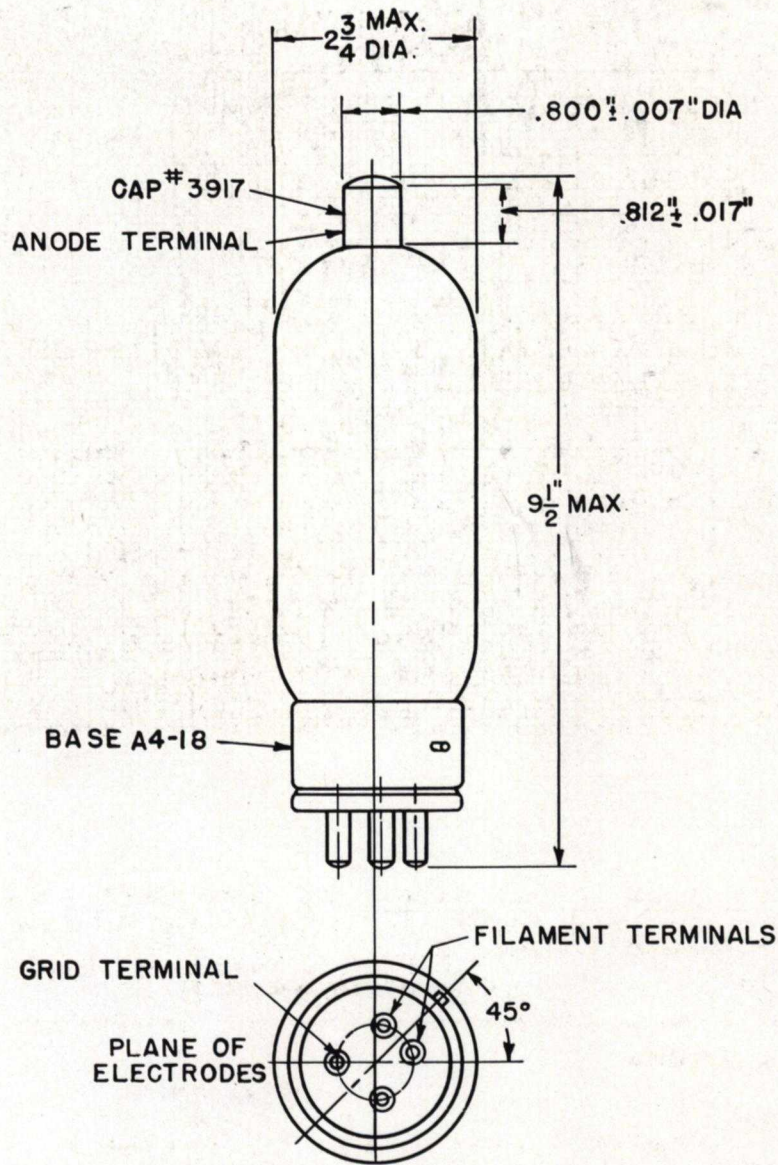
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GL-5C24 OUTLINE

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