



TWIN TRIODE

DESCRIPTION

The GL-5670 is a 9-pin miniature, high-frequency twin triode designed for reliable life under conditions of intermittent operation.

GENERAL

Electrical Data

Cathode—Coated Unipotential

Heater Voltage, a-c or d-c	6.3 Volts
Heater Current	0.350 Ampere

Mechanical Data

Envelope	T-6½ Glass
Base	E9-1 Glass Button 9-pin
Maximum Diameter	7/8 Inch
Maximum Seated Height	1½ Inches
Maximum Over-all Length	1¾ Inches

Mounting Position—Any

Direct Interelectrode Capacitances

Without External Shield

Plate to Grid, Each Section*	1.3 uuf
Plate to Cathode, Each Section*	1.0 uuf
Grid to Cathode, Each Section*	2.2 uuf
Plate to Plate, Nominal	0.05 uuf
Plate to Plate, Maximum	0.10 uuf

* Internal shield and heater connected to cathode.


Electronic
 TUBE

GENERAL  ELECTRIC

Supersedes ETX-233 dated 9-49

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

Maximum Ratings, Design Center

Each Triode Section

Plate Voltage	300	Volts
Plate Dissipation	1.5	Watts
Plate Current	18	Milliamperes
Heater-Cathode Voltage	90	Volts

Typical Operation

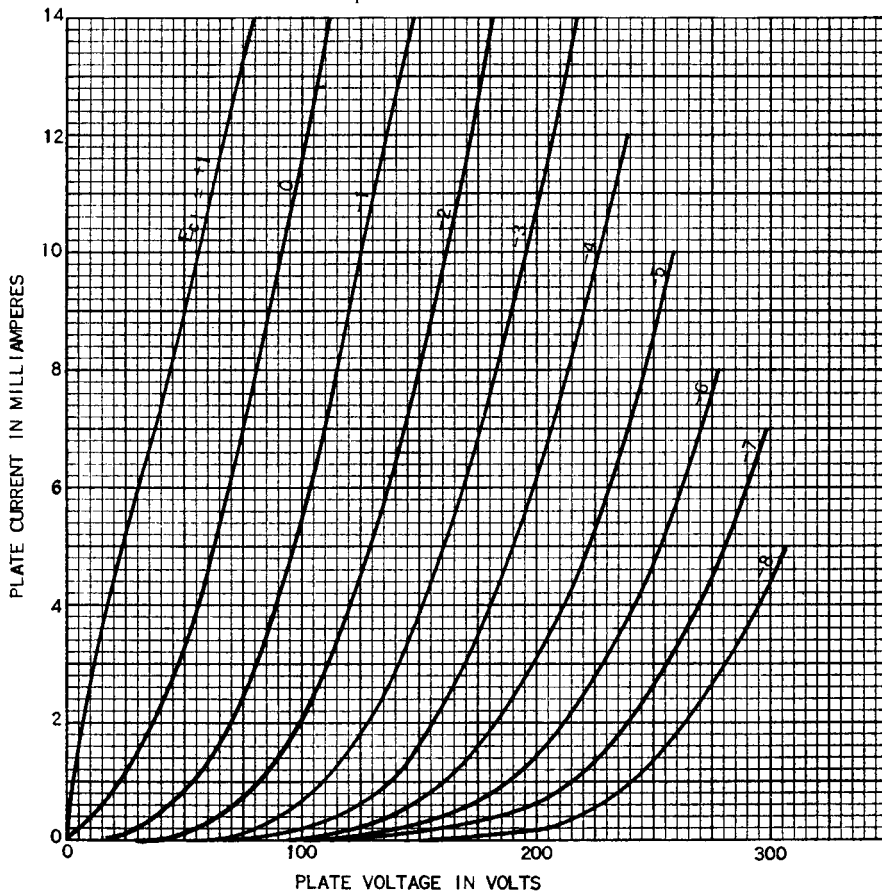
Class A₁ Operation

Plate Voltage	150	Volts
Cathode Resistor, Per Section	240	Ohms
Plate Current, Per Section	8.2	Milliamperes
Transconductance, Per Section	5500	Micromhos
Amplification Factor	35	
Cut-off Grid Voltage, I _b = 75ua approx.	-10	Volts

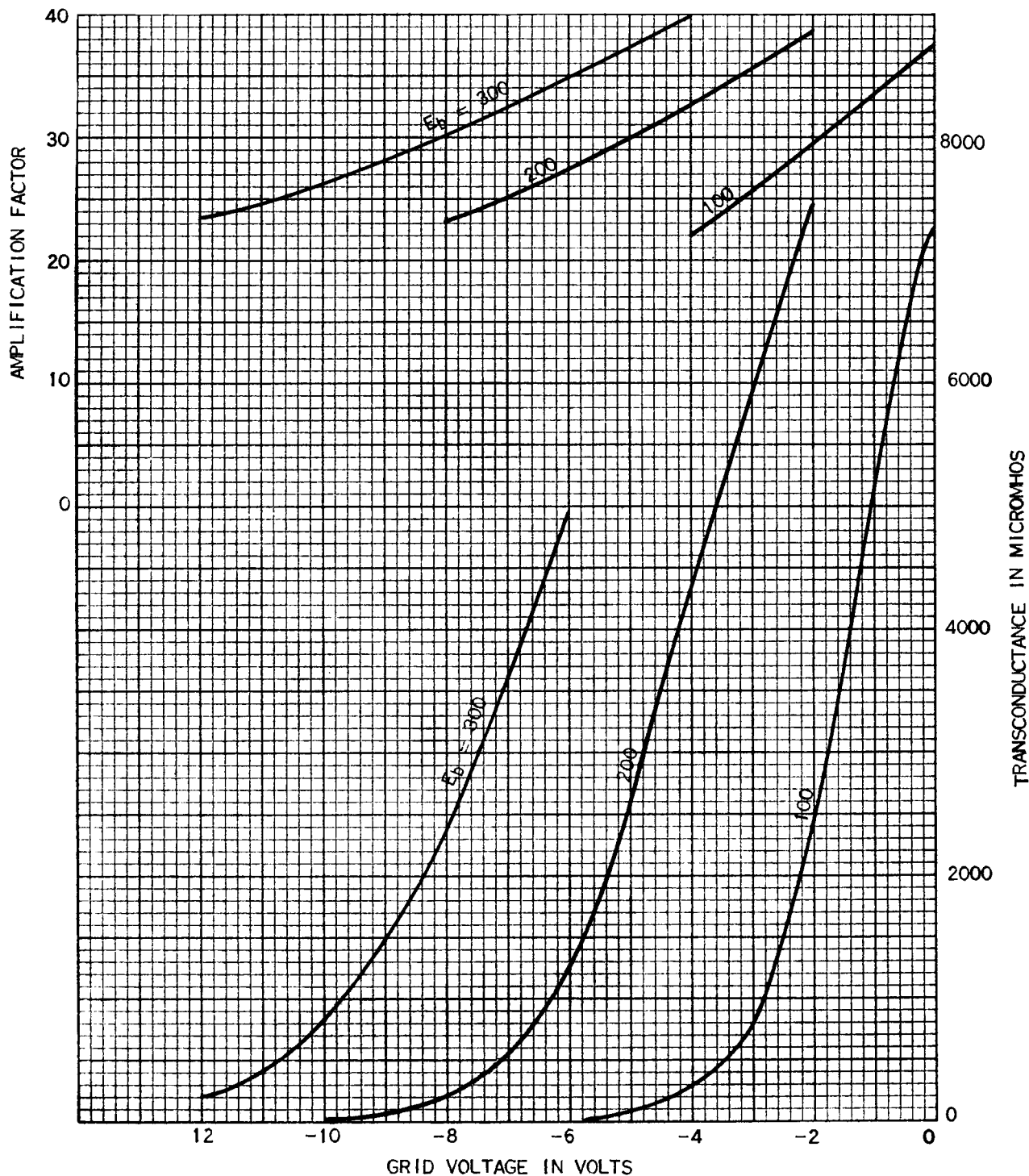
Class AB₁ Operation

Plate Voltage	300	Volts
Cathode Resistor	800	Ohms
A-F Grid-to-Grid Voltage, RMS	14	Volts
Zero-Signal Plate Current, Per Section	4.9	Milliamperes
Maximum-Signal Plate Current, Per Section	6.3	Milliamperes
Load Impedance, Plate-to-Plate	27000	Ohms
Total Harmonic Distortion	10	Per Cent
Maximum-Signal Power Output	1.0	Watt

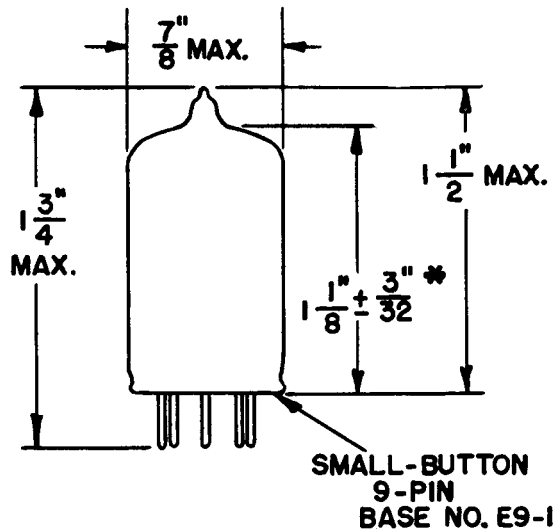
GL-5670
AVERAGE PLATE CHARACTERISTICS
 E_i = 6.3 VOLTS A-C



GL-5670
 AVERAGE CHARACTERISTICS
 $E_i = 6.3$ VOLTS A-C

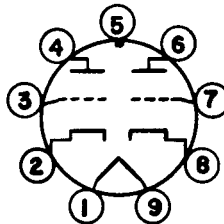


GL-5670 OUTLINE



* MEASURED FROM BASE SEAT TO BULB TOP LINE AS DETERMINED BY RING GAGE OF 7/16" I.D.

BASING DIAGRAM



8CJ

TERMINAL CONNECTIONS

- | | |
|---------------------------|---------------------------|
| Pin 1—Heater | Pin 6—Plate (Section 1) |
| Pin 2—Cathode (Section 2) | Pin 7—Grid (Section 1) |
| Pin 3—Grid (Section 2) | Pin 8—Cathode (Section 1) |
| Pin 4—Plate (Section 2) | Pin 9—Heater |
| Pin 5—Internal Shield | |

N-15122AZ

6-18-43

Tube Department

GENERAL ELECTRIC

Schenectady, N. Y.