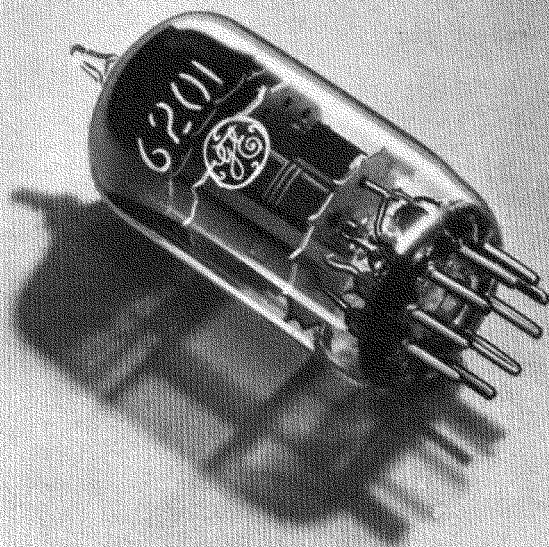




TWIN TRIODE

DESCRIPTION

The GL-6201 is a miniature twin triode designed for use as a grounded-grid amplifier or as a frequency converter in very-high-frequency applications. The tube is specially designed to assure dependable life and reliable service under the exacting

conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength and a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential

Heater Voltage (A-c or D-c).....	6.3	12.6 Volts
Heater Current.....	0.3	0.15 Ampere

Direct Interelectrode Capacitances

	With Shield *	Without Shield
Grid to Plate (Each Section).....	1.6	1.6 uuf
Input (Each Section).....	2.5	2.3 uuf
Output (Section 1).....	1.2	0.4 uuf
Output (Section 2).....	1.3	0.38 uuf
Heater to Cathode (Each Section).....	2.8	2.8 uuf

Grounded-Grid Operation

	With Shield †	Without Shield
Plate to Cathode (Section 1).....	0.18	0.2 uuf
Plate to Cathode (Section 2).....	0.2	0.24 uuf
Input (Each Section).....	5.0	5.0 uuf
Output (Section 1).....	2.7	1.9 uuf
Output (Section 2).....	2.7	1.8 uuf


Electronic
TUBE

GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)**Mechanical Data**

Mounting Position—Any

Envelope—T-6½ Glass

Base—Small Button 9-Pin, E9-1

MAXIMUM RATINGS

Electrical—Design Center Values—Each Section

Plate Voltage..... 300 Volts

Negative D-c Grid Voltage..... 50 Volts

Plate Dissipation..... 2.5 Watts

Heater-Cathode Voltage..... 90 Volts

Mechanical

Peak Impact Acceleration in Any Direction..... 600 G

CHARACTERISTICS AND TYPICAL OPERATIONClass A₁ Amplifier—Each Section

Plate Voltage..... 100 250 Volts

Cathode Bias Resistor..... 270 200 Ohms

Amplification Factor..... 57 60

Plate Resistance, approximate..... 14,300 10,900 Ohms

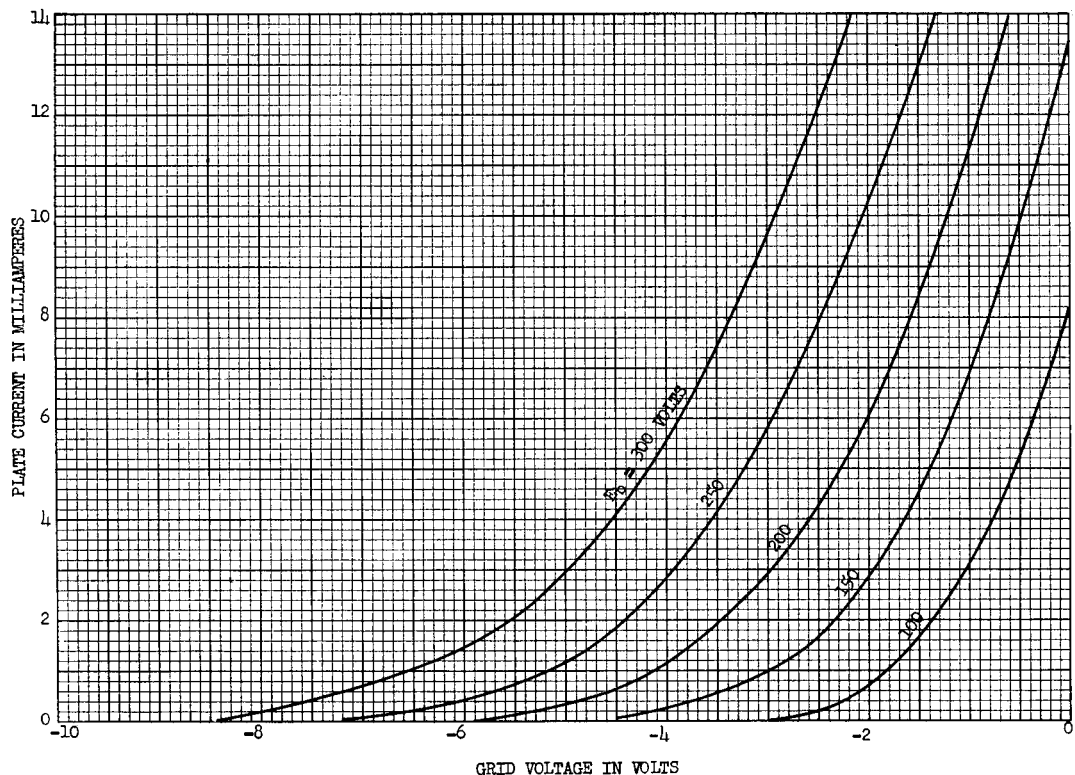
Transconductance..... 4000 5500 Micromhos

Plate Current..... 3.3 10 Milliamperes

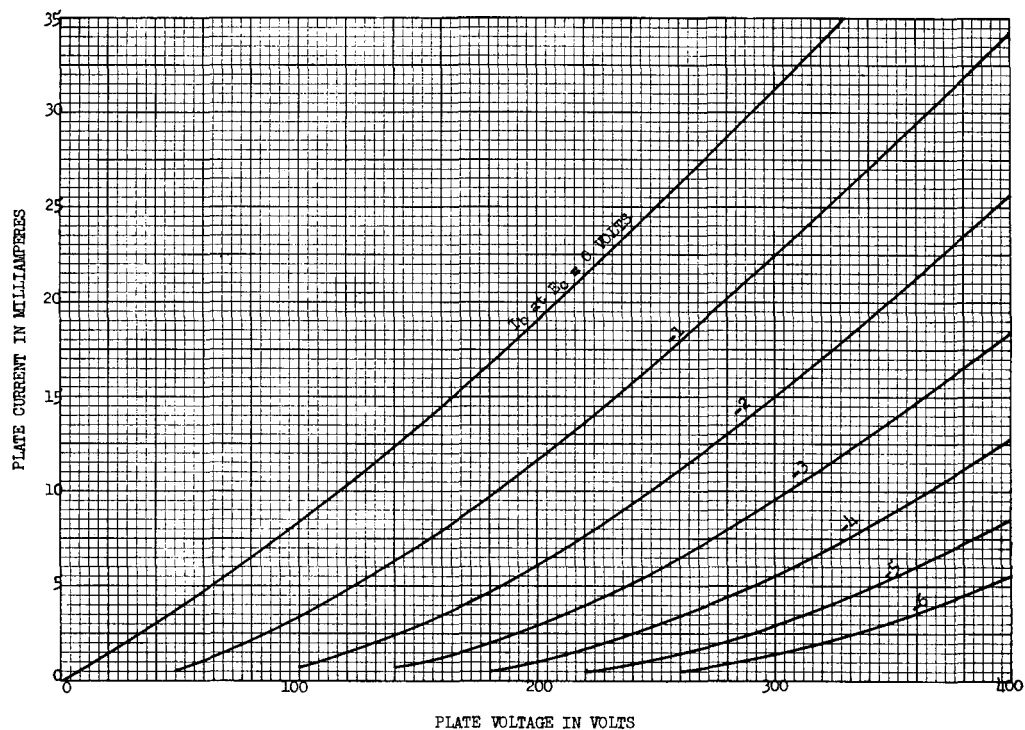
Grid Voltage, approximate for $I_b = 10$ Microamperes..... -5 -12 Volts

* With external shield No. 315 connected to cathode of section under test.

† With external shield No. 315 connected to grid of section under test.

**AVERAGE CHARACTERISTICS
(EACH SECTION)**

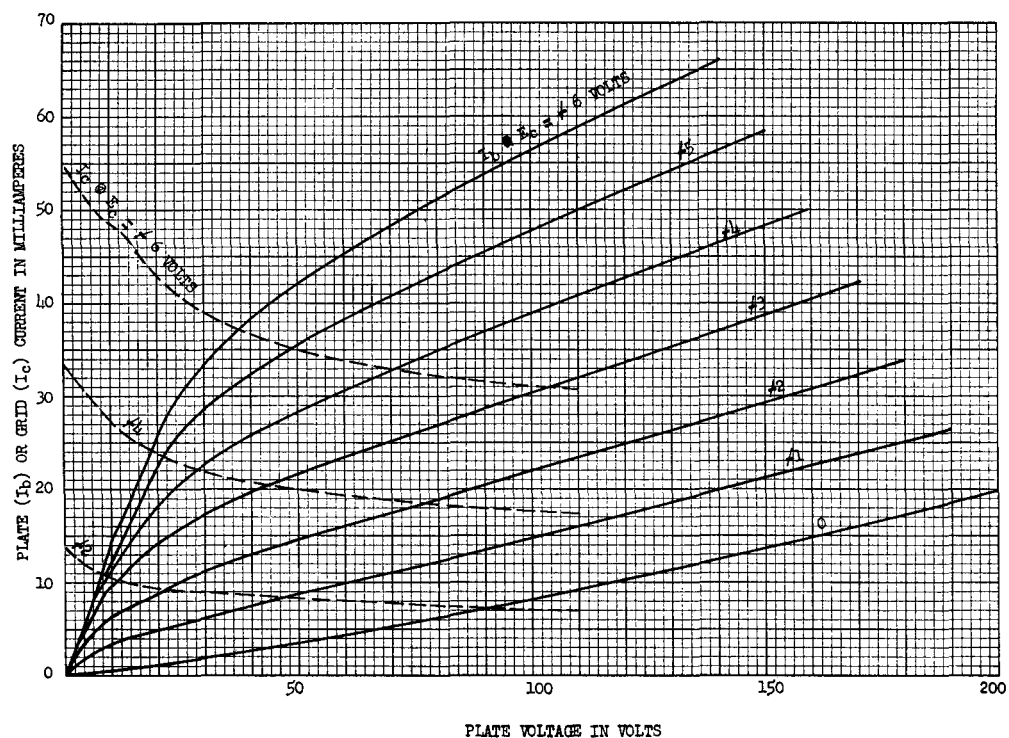
**AVERAGE PLATE CHARACTERISTICS
(EACH SECTION)**



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**AVERAGE PLATE CHARACTERISTICS
(EACH SECTION)**



K-69087-72A526

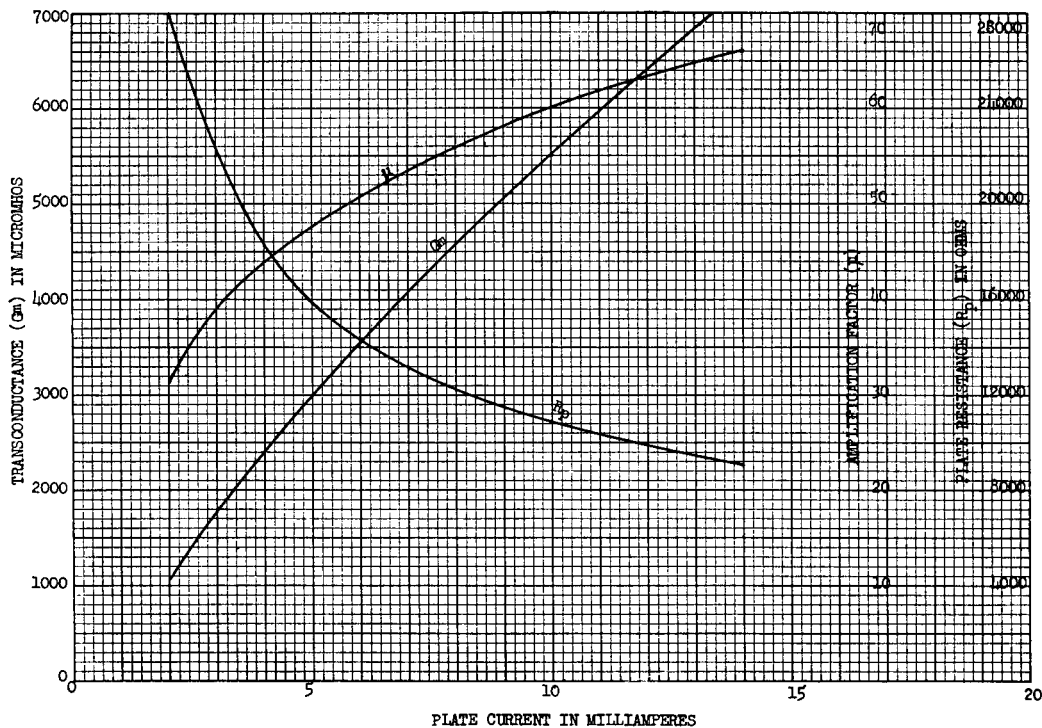
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AVERAGE CHARACTERISTICS

(EACH SECTION)

$E_f = 12.6$ VOLTS

PLATE VOLTAGE = 250 VOLTS

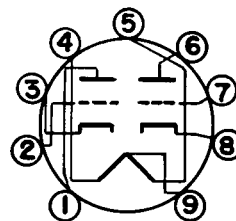
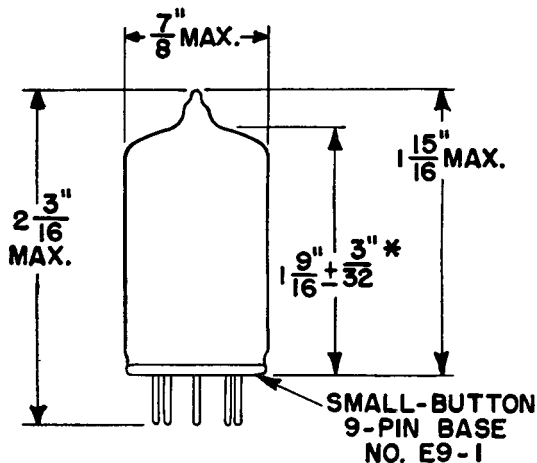


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OUTLINE

BASING DIAGRAM



9A

- PIN 1: PLATE (SECTION NO. 2)
- PIN 2: GRID (SECTION NO. 2)
- PIN 3: CATHODE (SECTION NO. 2)
- PIN 4: HEATER
- PIN 5: HEATER
- PIN 6: PLATE (SECTION NO. 1)
- PIN 7: GRID (SECTION NO. 1)
- PIN 8: CATHODE (SECTION NO. 1)
- PIN 9: HEATER CENTER-TAP

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

N-15155AZ

4-3-52

Tube Department

GENERAL ELECTRIC

Schenectady, N. Y.