

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



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 OPERATION

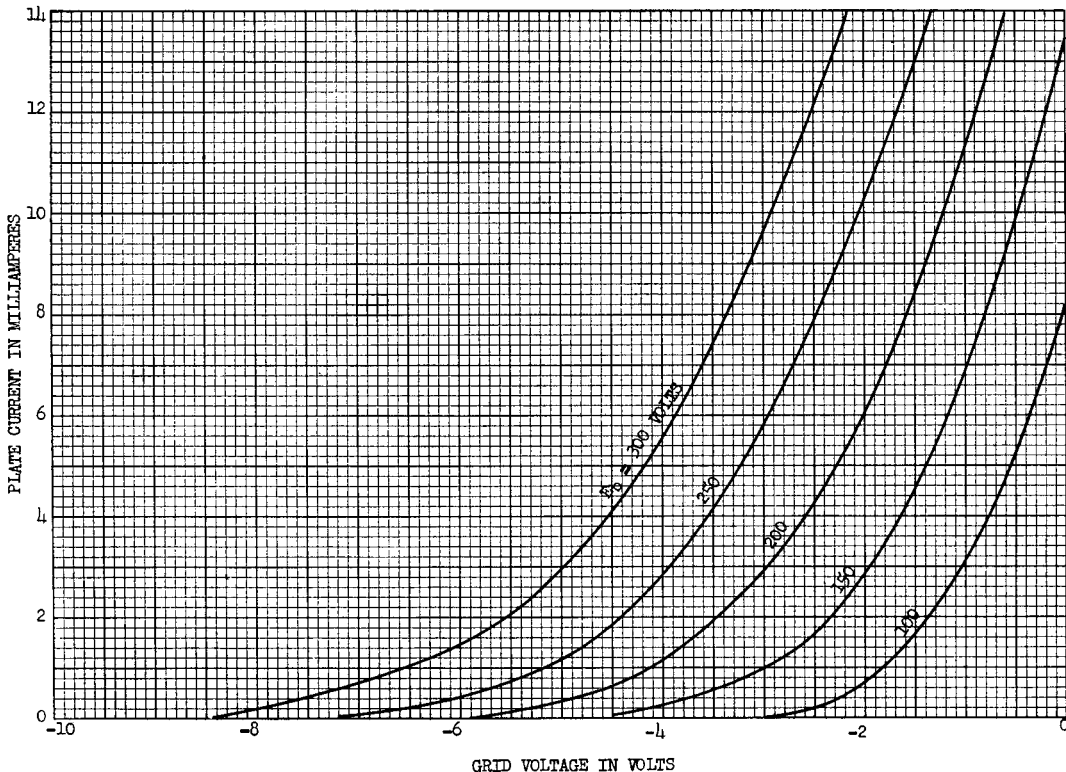
Class A₁ Amplifier—Each Section

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

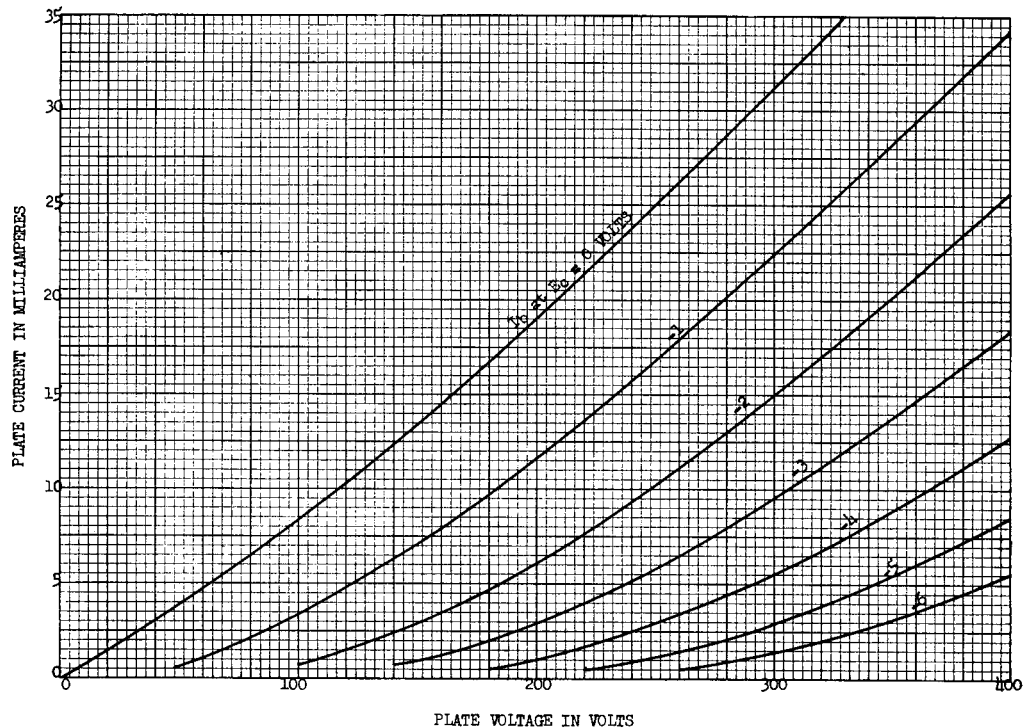
* With external shield No. 315 connected to cathode of section under test.

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

**AVERAGE CHARACTERISTICS
(EACH SECTION)**



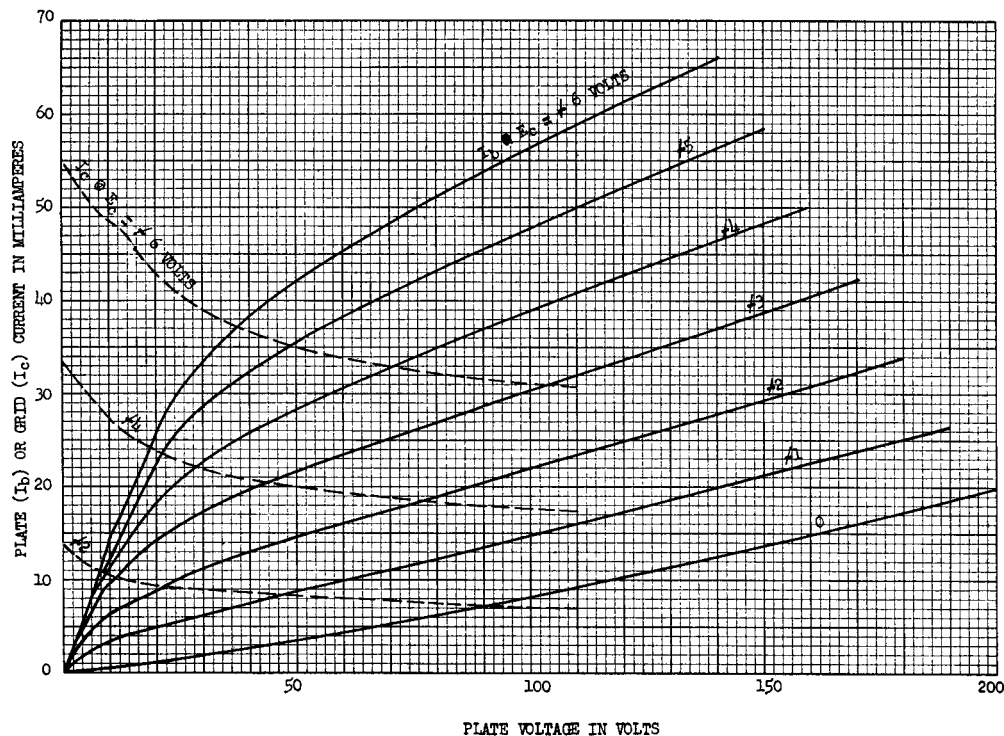
**AVERAGE PLATE CHARACTERISTICS
(EACH SECTION)**



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**AVERAGE PLATE CHARACTERISTICS
(EACH SECTION)**



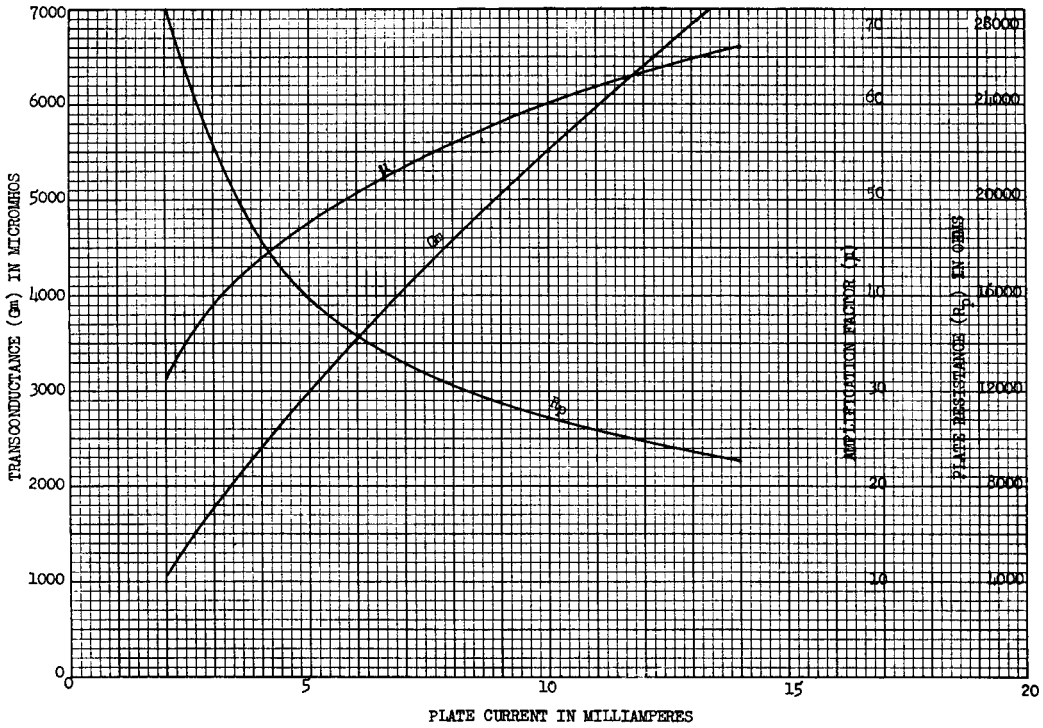
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AVERAGE CHARACTERISTICS
(EACH SECTION)

$E_f = 12.6$ VOLTS

PLATE VOLTAGE = 250 VOLTS

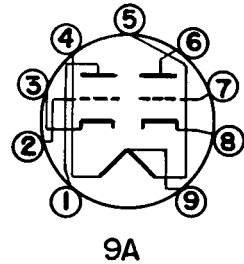
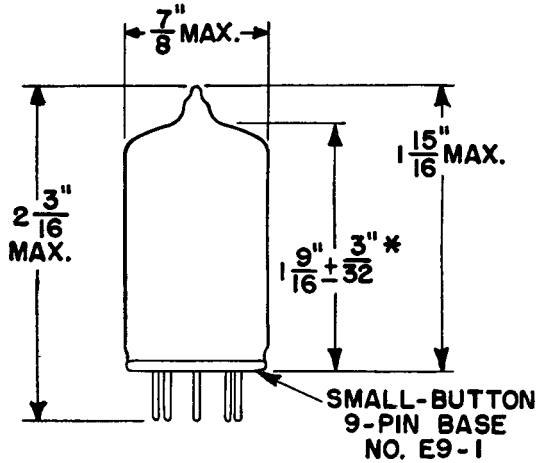


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OUTLINE

BASING DIAGRAM



- 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



Schenectady, N. Y.