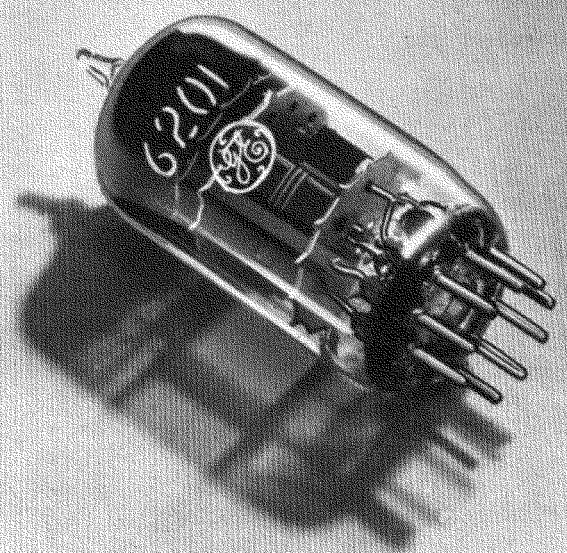



# TWIN TRIODE

## 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 |

GE 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 |

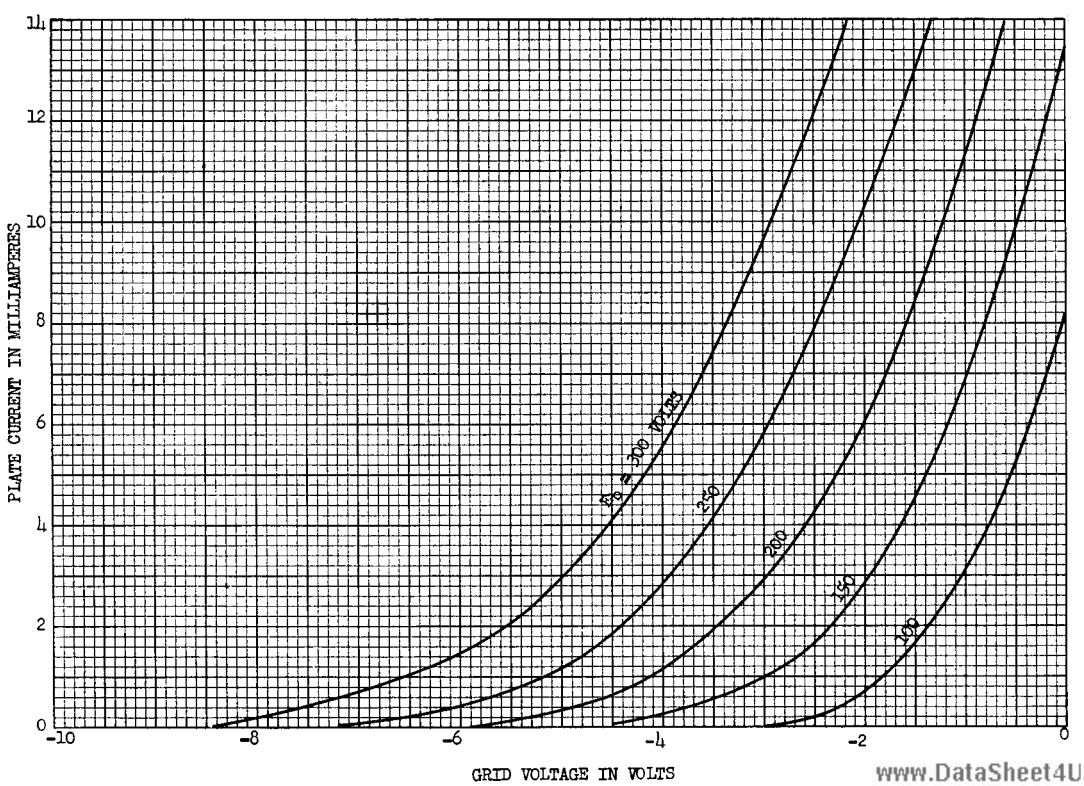


## CHARACTERISTICS AND TYPICAL OPERATION

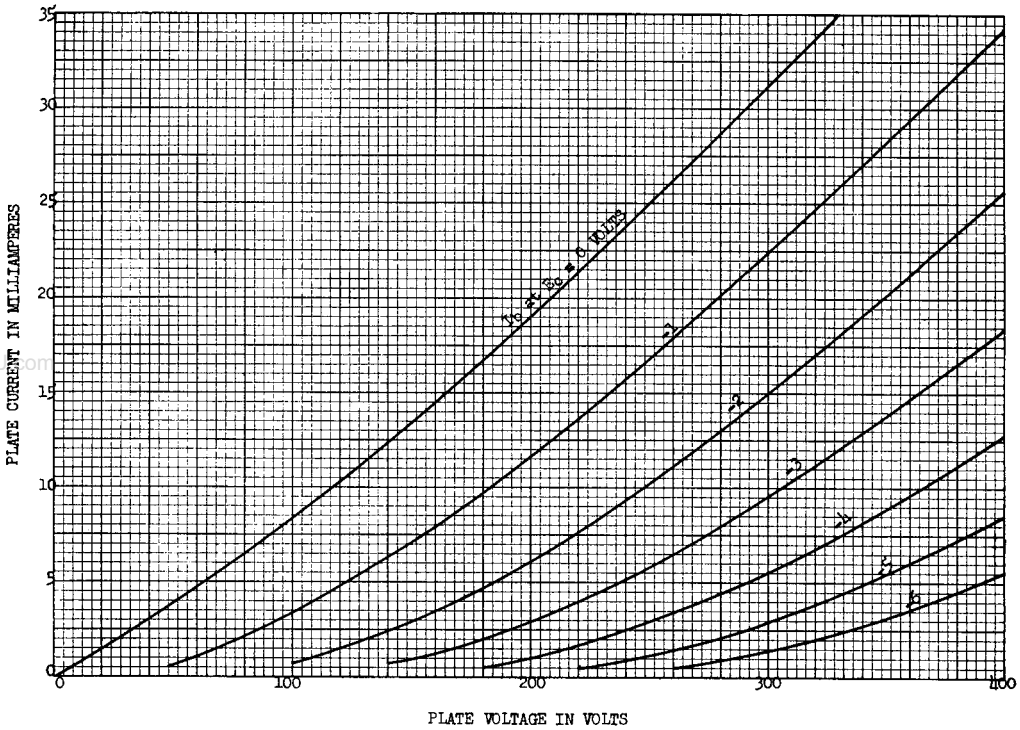
| Class $A_1$ Amplifier—Each Section | | | |
|---|---|---|---|
| Plate Voltage | 100 | 250 | Volts |
| Cathode Bias Resistor | 270 | 200 | Ohms |
| Amplification Factor | 57 | 60 | |
| Plate Resistance, approximate | 14,300 | 10,900 | Ohms |
| Transconductance | 4000 | 5500 | Micromhos |
| Plate Current | 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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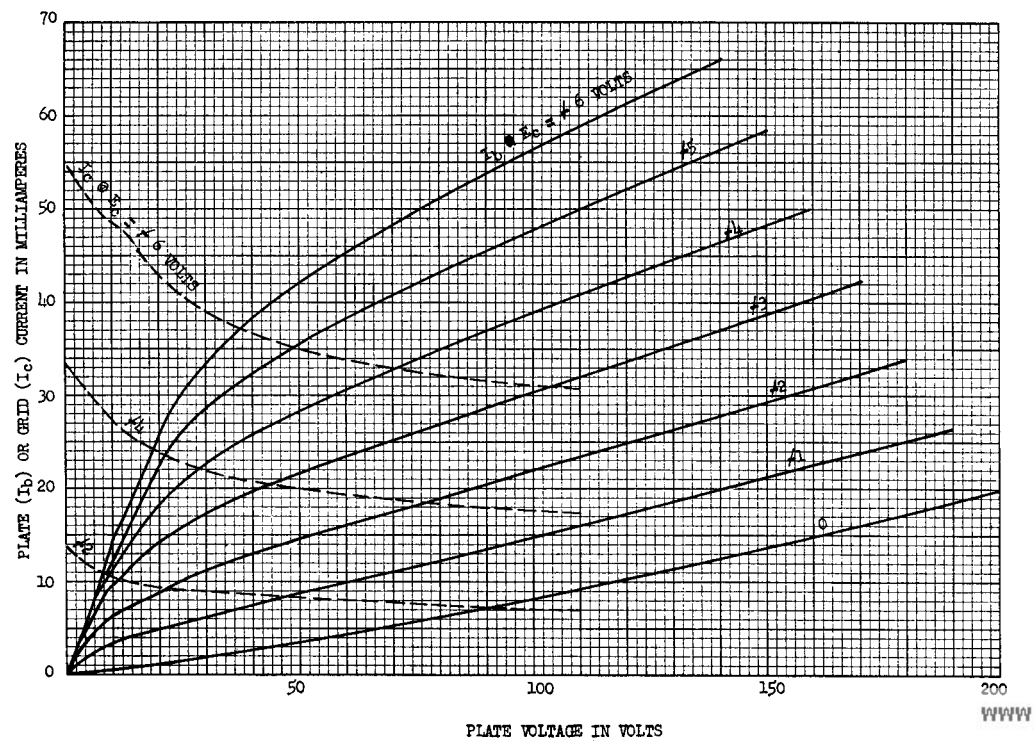
## AVERAGE PLATE CHARACTERISTICS
## (EACH SECTION)

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# GL-6201

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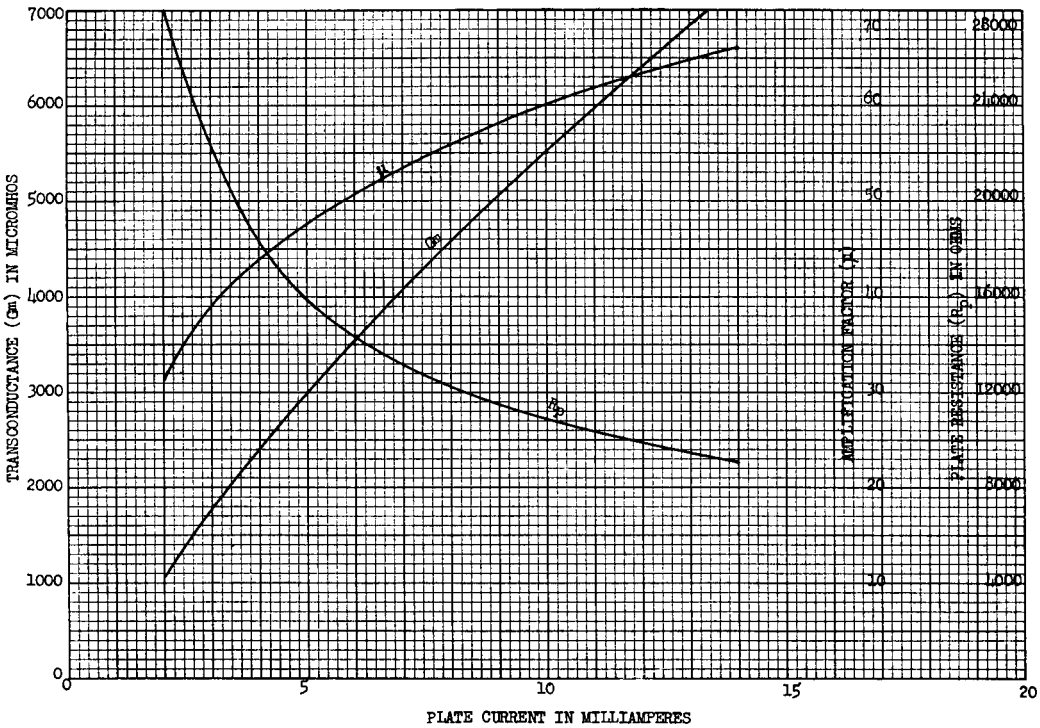
## AVERAGE CHARACTERISTICS
(EACH SECTION)
$E_f = 12.6$ VOLTS
PLATE VOLTAGE = 250 VOLTS

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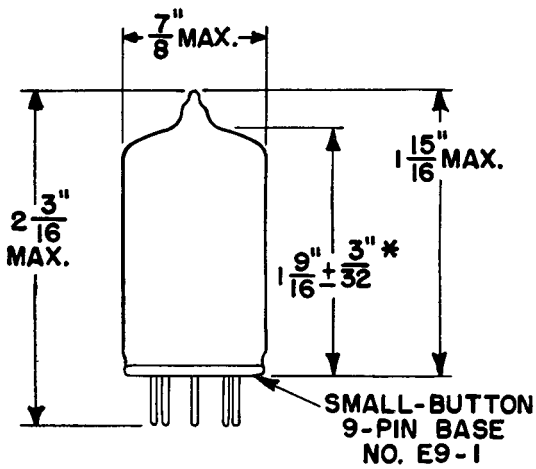
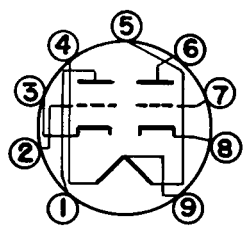
### OUTLINE




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

N-15155AZ

### 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

4-3-52

*Tube Department*

GENERAL ELECTRIC

*Schenectady, N. Y.*