

TWIN TRIODE

DESCRIPTION

The GL-6072 is a low-noise, low-microphonic miniature twin triode intended primarily for use in the low-level stages of high-gain audio-frequency amplifiers. The tube is specially designed to assure dependable life and reliable service under the ex-

acting conditions encountered in mobile and aircraft applications. Additional features include mechanical ruggedization 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.....	350	175 Milliamperes
Direct Interelectrode Capacitances*		
Grid to Plate (Each Section).....	1.4	uuf
Input (Each Section).....	1.4	uuf
Output (Section Number 1).....	0.5	uuf
Output (Section Number 2).....	0.4	uuf

Mechanical Data

Mounting Position—Any
Envelope—T-6 1/2 Glass
Base—Small Button 9-Pin, E9-1



TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Electrical—Design Center Values—Each Section

Plate Voltage	300 Volts
Positive D-c Grid Voltage	0 Volt
Plate Dissipation	1.5 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	250 Volts
Grid Voltage	-4.0 Volts
Amplification Factor	44
Plate Resistance, approximate	25000 Ohms
Transconductance	1750 Micromhos
Plate Current	3.0 Milliampères
Grid Voltage, approximate, I _b = 10 Microampères	-8 Volts

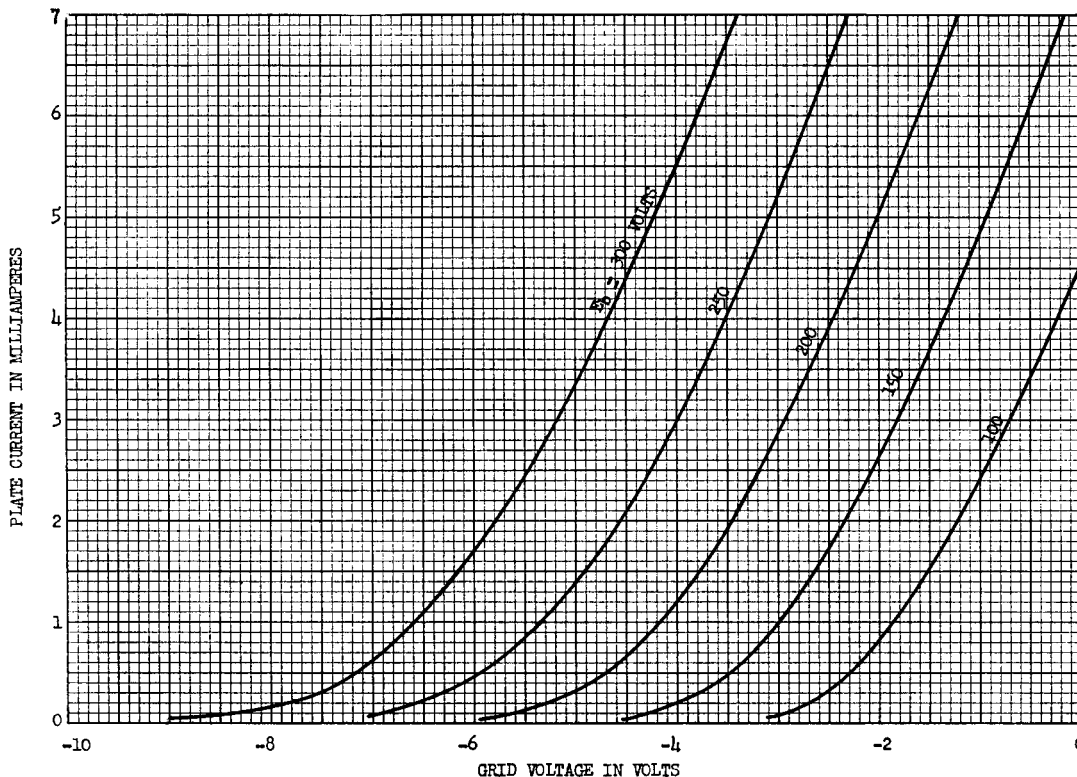
Low-Level-Amplifier Service—Each Section

Heater Voltage**	6.3 Volts
Plate-Supply Voltage	150 Volts
Plate Load Resistor	20000 Ohms
Grid Resistor	0.1 Megohm
Cathode Resistor	2700 Ohms
Cathode Capacitor	40 Microfarads
Voltage Gain	12.5

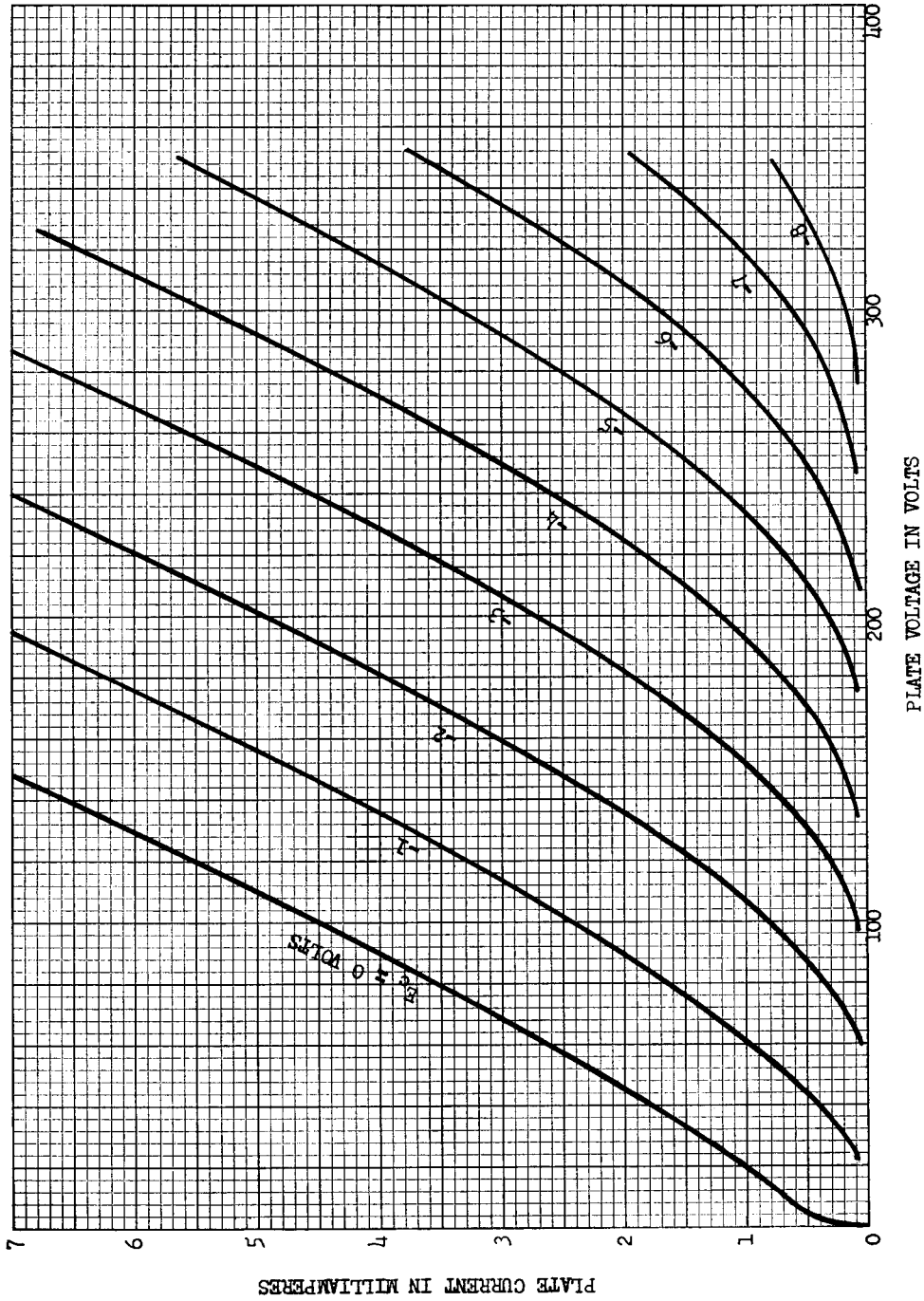
* Without external shield.

** Pin 9 connected to negative B supply.

GL-6072
 AVERAGE CHARACTERISTICS
 EACH SECTION
 E_f = 12.6 VOLTS



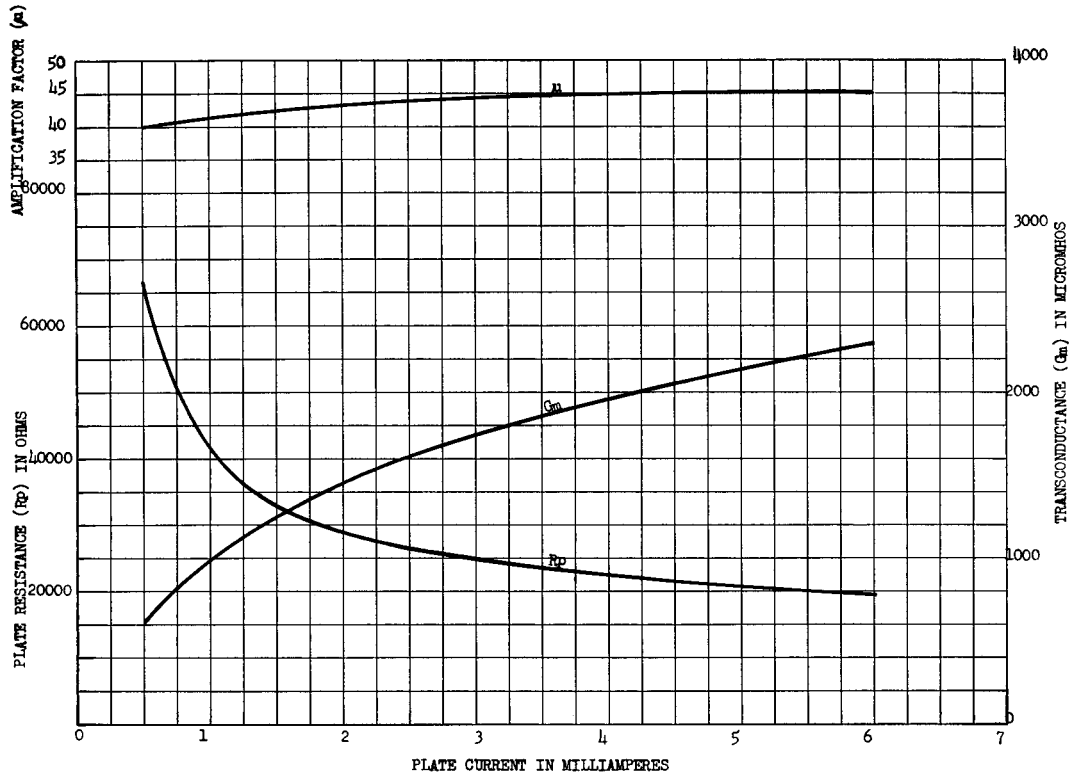
GL-6072
 AVERAGE PLATE CHARACTERISTICS
 EACH SECTION
 $E_f = 12.6$ VOLTS



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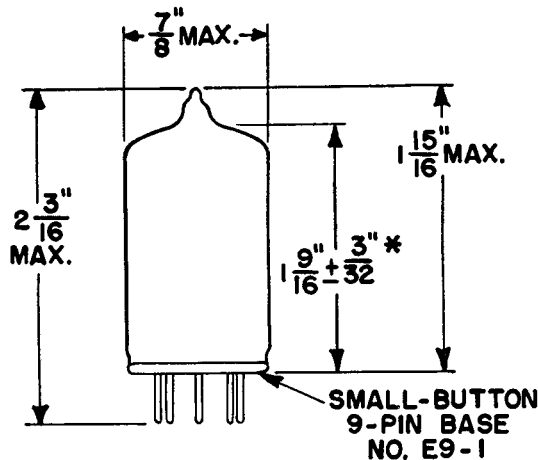
GL-6072
 AVERAGE CHARACTERISTICS
 EACH SECTION
 $E_f = 12.6$ VOLTS $E_b = 250$ VOLTS



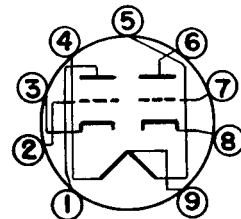
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OUTLINE



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

10-26-51