

## TWIN TRIODE

### DESCRIPTION

The GL-5751 is a high- $\mu$  nine-pin miniature tube with two triode sections, each of which has an individual cathode connection. The heater may be connected for either series or parallel operation. Distinctive design features of this twin triode result in a sturdy vibration-resistant tube for in-

dustrial or other applications where dependable operation under rigorous service conditions is a necessity. It is also well adapted to intermittent service conditions. To provide a safety factor in cathode performance, the heater current is slightly higher than in conventional tubes of this type.

### TECHNICAL INFORMATION

#### GENERAL

##### Electrical Data

|                                       |                 |               |
|---------------------------------------|-----------------|---------------|
| Cathode—Coated unipotential           | <b>Parallel</b> | <b>Series</b> |
| Heater voltage (A-c or D-c) . . . . . | 6.3             | 12.6 volts    |
| Heater current . . . . .              | 0.350           | 0.175 amperes |

##### Mechanical Data

Mounting position—Any  
Envelope—T-6½ Glass

**GENERAL  ELECTRIC**

Supersedes ETX-245 dated 5-50

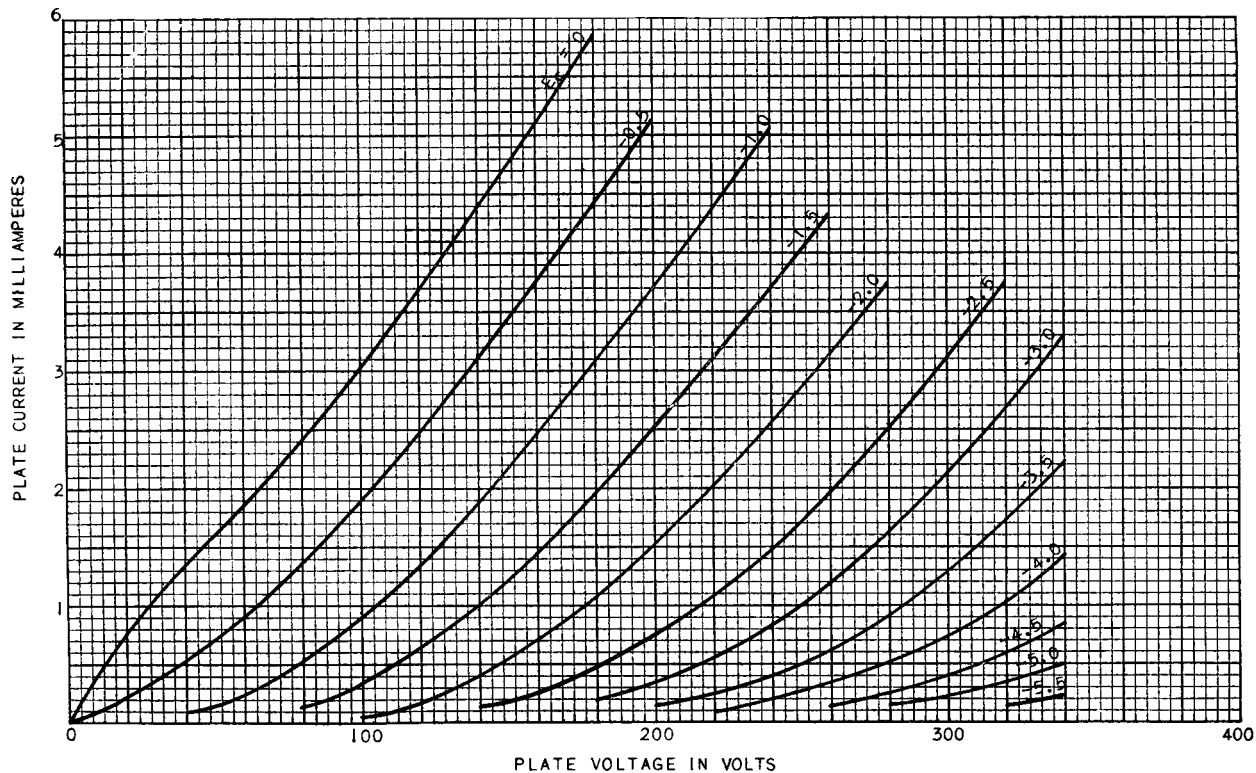
  
*Electronic*  
TUBE

**TECHNICAL INFORMATION (CONT'D)**

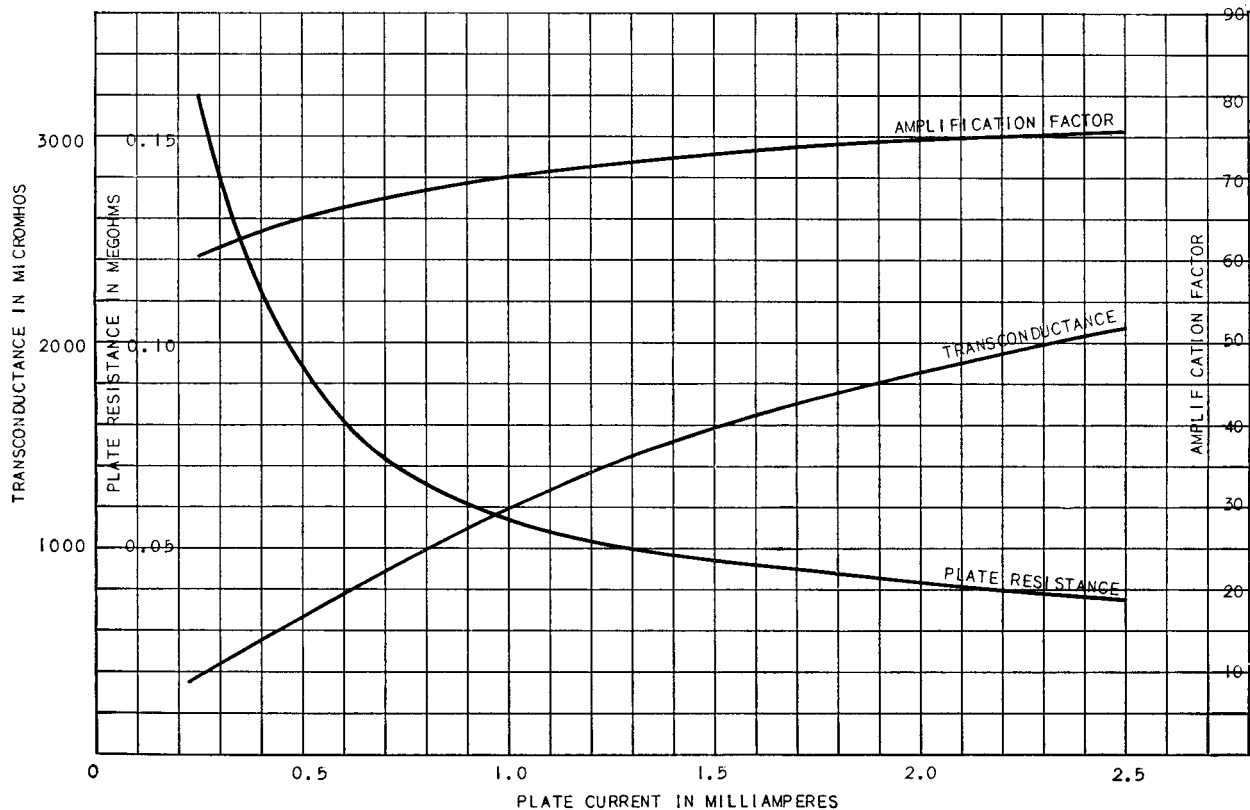
**MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS**

| Maximum Ratings                         | Design Center | Absolute        |
|---|---------------|-----------------|
| Plate voltage.....                      | 300           | 330 volts       |
| Grid voltage                            |               |                 |
| Negative-bias value.....                | 50            | 55 volts        |
| Positive-bias value.....                | 0             | 0 volts         |
| Plate dissipation (each section).....   | 1.0           | 1.1 watts       |
| Peak heater-cathode voltage.....        | 90            | 100 volts       |
| <b>Typical Operation</b>                |               |                 |
| Class A amplifier (each triode section) |               |                 |
| Heater voltage.....                     | 6.3           | 6.3 volts       |
| Plate voltage.....                      | 100           | 250 volts       |
| Grid bias voltage.....                  | -1            | -3 volts        |
| Amplification factor.....               | 70            | 70              |
| Plate resistance.....                   | 58000         | 58000 ohms      |
| Transconductance.....                   | 1200          | 1200 micromhos  |
| Plate current.....                      | 0.8           | 1.0 milliampere |

**GL-5751**  
**AVERAGE PLATE CHARACTERISTICS**  
**TRIODE UNIT  $E_f = 6.3$  VOLTS**

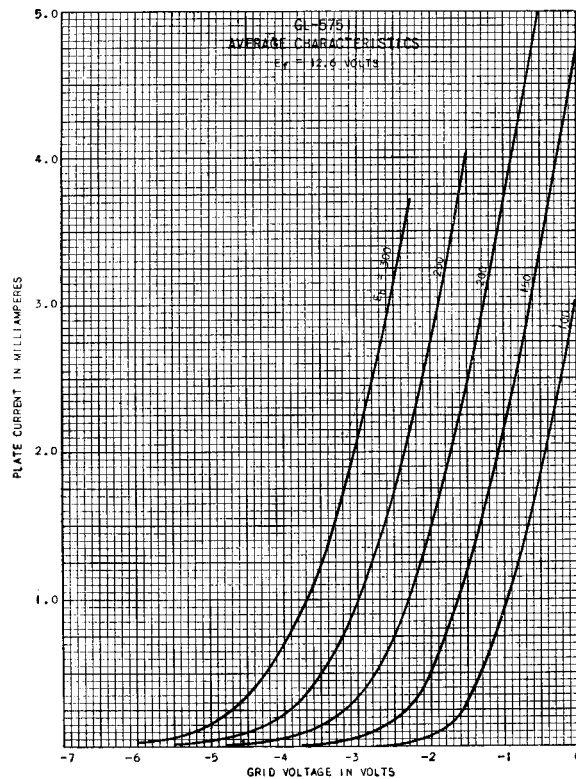


GL-5751  
 AVERAGE CHARACTERISTICS  
 $E_f = 250$  VOLTS  $E_r = 12.6$  VOLTS



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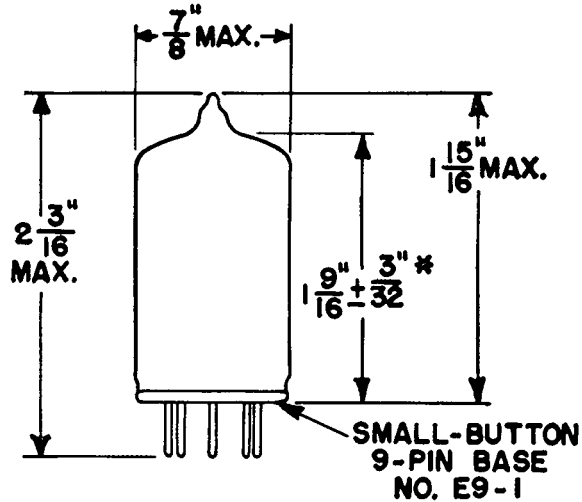
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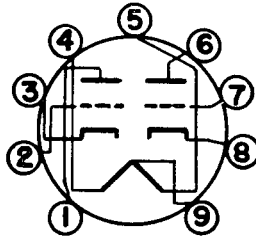
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OUTLINE  
 PIOTRON GL-5751



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

**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**

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