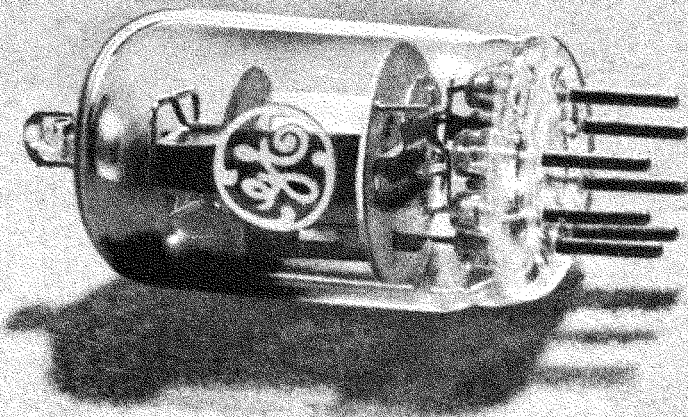




## PENTODE

### DESCRIPTION

The GL-5725 is a miniature, dual-control, radio-frequency pentode designed for dependable operation under conditions encountered in mobile and aircraft service. The control grid and the

suppressor grid can be used as independent control elements. The tube is suitable for use in gated or gain-controlled amplifiers, and in delay or mixer circuits.

### TECHNICAL INFORMATION

#### GENERAL

##### Electrical Data

|                                                 |              |
|-------------------------------------------------|--------------|
| Cathode—Indirectly Heated                       | 6.3 Volts    |
| Heater Voltage (A-C or D-C)                     | 0.175 Ampere |
| Heater Current (Nominal)                        |              |
| Direct Interelectrode Capacitances*             |              |
| Grid No. 1 to Plate                             | 0.01 uuf     |
| Grid No. 1 to All Other Electrodes Except Plate | 3.9 uuf      |
| Plate to All Other Electrodes Except Grid No. 1 | 3.0 uuf      |
| Grid No. 1 to Grid No. 3                        | 0.1 uuf      |

**GENERAL ELECTRIC**

Supersedes ETX-258 dated 6-50

Elect  
TU

## TECHNICAL INFORMATION (CONT'D)

### Mechanical Data

Mounting position—any

Envelope—T-5½ glass

Base—Miniature button 7-pin, E7-1

### MAXIMUM RATINGS, Design Center Values

|                             |                 |
|-----------------------------|-----------------|
| Plate voltage.....          | 180 volts       |
| Grid No. 2 voltage.....     | 140 volts       |
| Grid No. 3 voltage.....     | 27 volts        |
| Plate dissipation.....      | 1.7 watts       |
| Grid No. 2 dissipation..... | 0.75 watt       |
| Cathode current.....        | 18 milliamperes |
| Heater-cathode voltage..... | 90 volts        |
| Bulb temperature.....       | 120 C           |

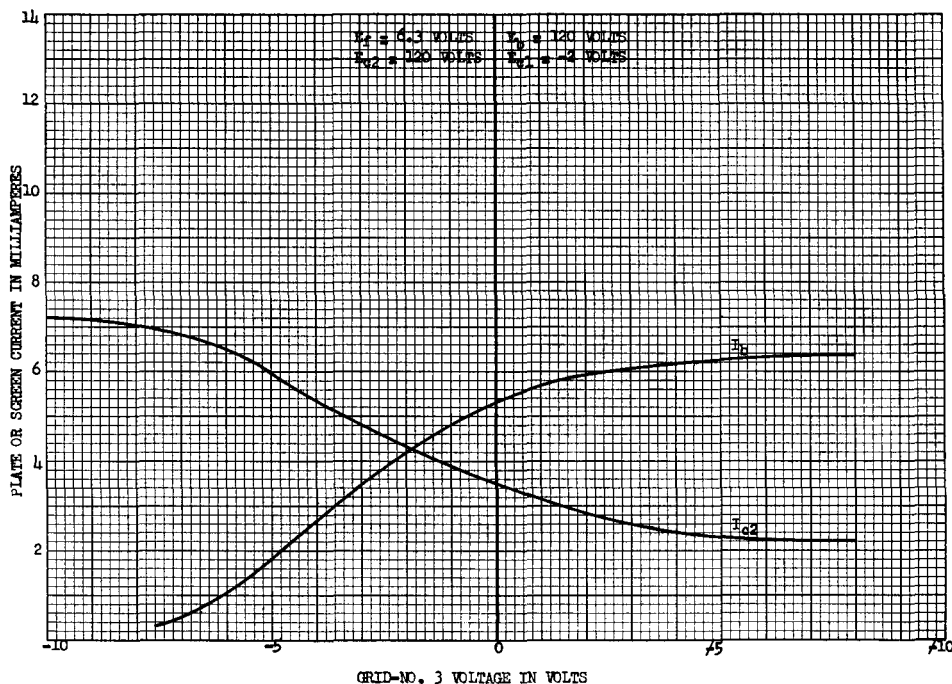
### TYPICAL OPERATION

|                                                         |                  |
|---------------------------------------------------------|------------------|
| Plate voltage.....                                      | 120 volts        |
| Grid No. 3 voltage.....                                 | 0 volts          |
| Grid No. 2 voltage.....                                 | 120 volts        |
| Grid No. 1 voltage.....                                 | -2 volts         |
| Plate current.....                                      | 5.2 milliamperes |
| Grid No. 2 current.....                                 | 3.5 milliamperes |
| Transconductance                                        |                  |
| Grid No. 1 to plate.....                                | 3200 micromhos   |
| Grid No. 3 to plate.....                                | 470 micromhos    |
| Heater cycles of intermittent operation, minimum**..... | 5000 cycles      |

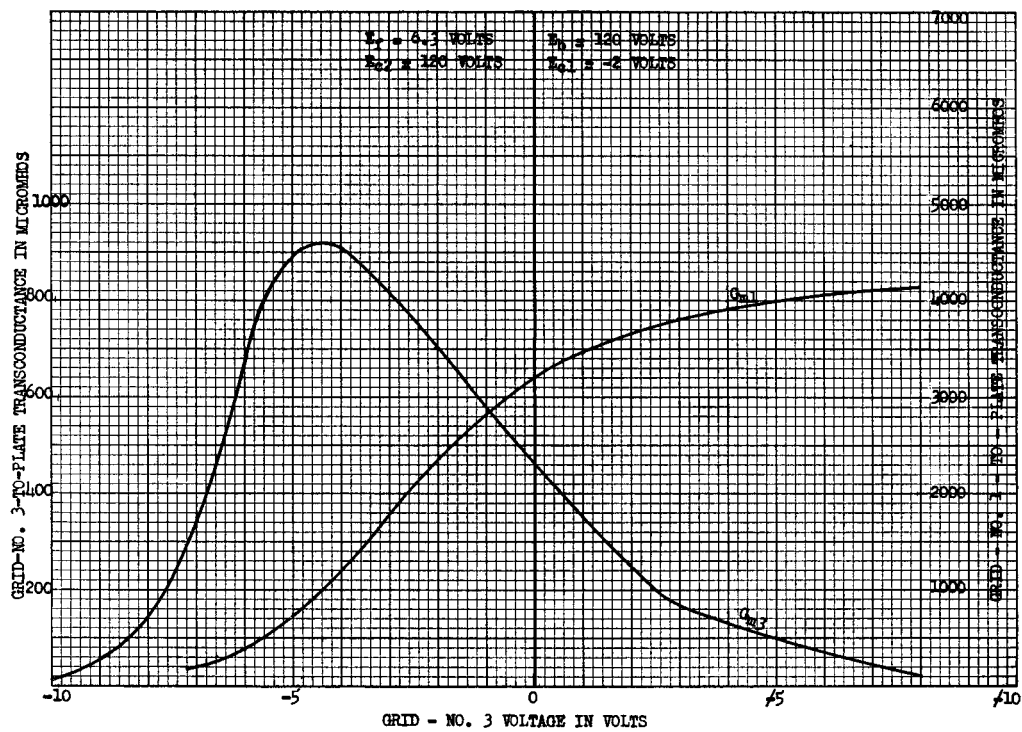
\*With external shield.

\*\*The 5725 heater is designed to withstand at least 5000 cycles of intermittent operation at 7.5 volts.

### AVERAGE CHARACTERISTICS



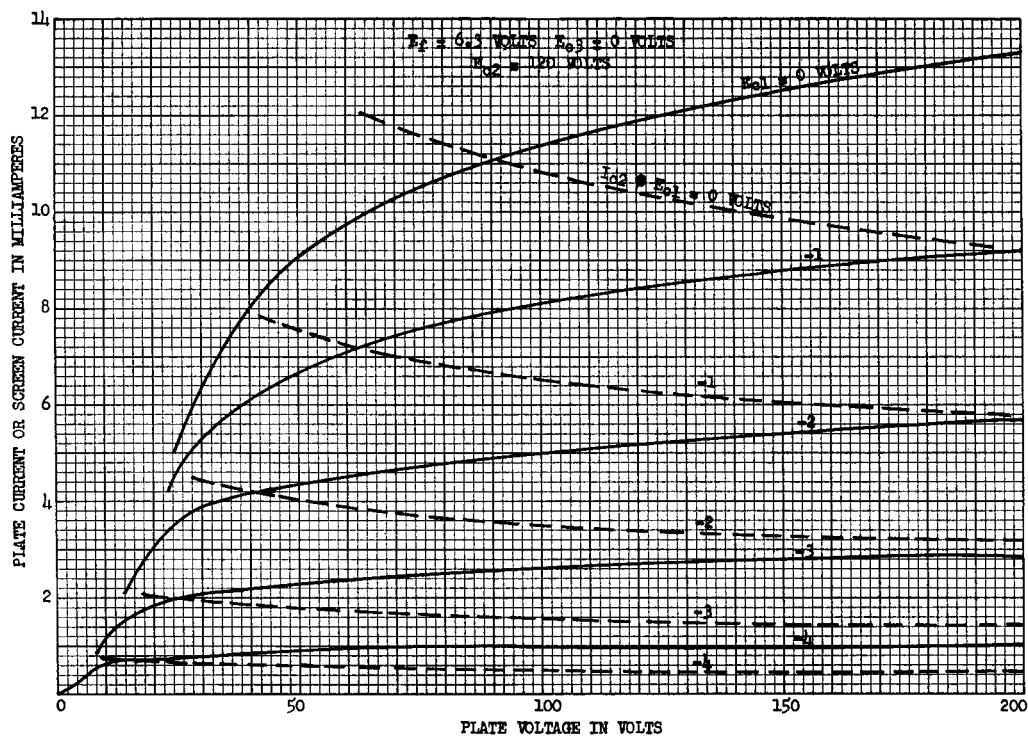
# AVERAGE CHARACTERISTICS



K-69087-72A472

7-19-51

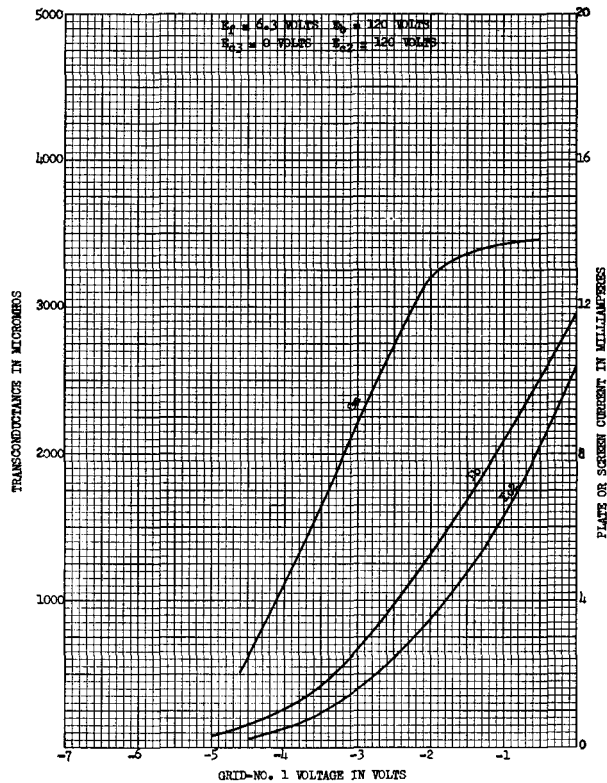
# AVERAGE PLATE CHARACTERISTICS



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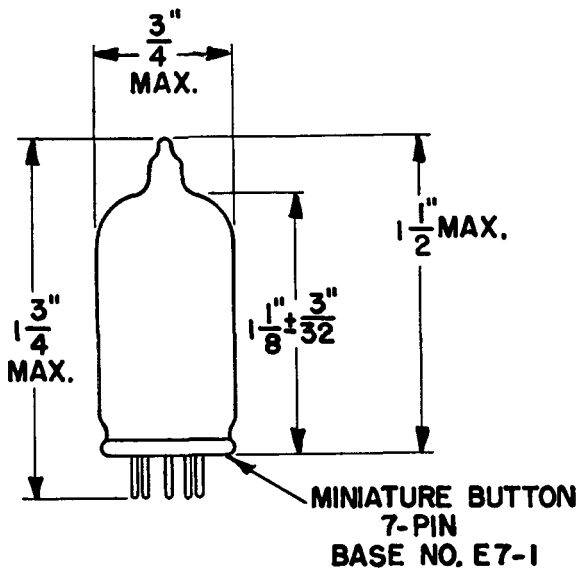
**AVERAGE CHARACTERISTICS**



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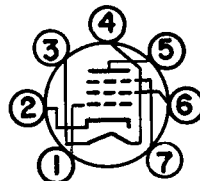
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OUTLINE  
GL-5725



N-15171AZ

**BASING DIAGRAM**



7CM

- PIN 1: GRID NO. 1
- PIN 2: CATHODE
- PIN 3: HEATER
- PIN 4: HEATER
- PIN 5: PLATE
- PIN 6: GRID NO. 2
- PIN 7: GRID NO. 3

2-21-50

Tube Department

**GENERAL  ELECTRIC**

Schenectady, N. Y.