DESCRIPTION

The GL-6137 is a remote-cutoff pentode designed for use as a high-gain radio-frequency or intermediate-frequency amplifier. 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.

GENERAL

**Electrical Data**
- Cathode—Coated Unipotential
- Heater Voltage (A-c or D-c) ........................................... 6.3 Volts
- Heater Current ............................................................. 0.3 Ampere
- Direct Interelectrode Capacitance*
  - Grid No. 1 to Plate, maximum ....................................... 0.003 uuf
  - Input ........................................................................ 5.0 uuf
  - Output ........................................................................ 6.5 uuf

**Mechanical Data**
- Mounting Position—Any
- Envelope—MT-8, Metal Shell
- Base—Small Wafer Octal 8-pin, B8-21
MAXIMUM RATINGS

Electrical—Design Center Values

- Plate Voltage: 300 Volts
- Screen Supply Voltage: 300 Volts
- Screen Voltage: 125 Volts
- Positive D-c Grid—No. 1 Voltage: 0 Volt
- Plate Dissipation: 3.0 Watts
- Screen Dissipation: 0.4 Watt
- Heater-cathode Voltage: 90 Volts

Mechanical

Peak Impact Acceleration in Any Direction: 600 G

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

- Plate Voltage: 250 Volts
- Suppressor Voltage: 0 Volt
- Screen Voltage: 100 Volts
- Grid—No. 1 Voltage: -3 Volts
- Plate Resistance, approximate: 0.12 Megohm
- Transconductance: 2350 2000 Micromhos
- Plate Current: 9.2 Milliamperes
- Screen Current: 2.6 Milliamperes
- Grid—No. 1 Voltage, approximate for Gm = 10 Micromhos: -35 Volts

* Measured with Pin 1 connected to Pin 5.

△Pin 3 connected to Pin 5 at socket.

AVERAGE PLATE CHARACTERISTICS

The text describes technical information related to the maximum ratings and characteristics of a device, including electrical and mechanical specifications. A graph illustrates average plate characteristics, showing relationships between plate voltage and plate current or screen current. The graph includes various voltage levels and current values, indicating performance under different conditions.