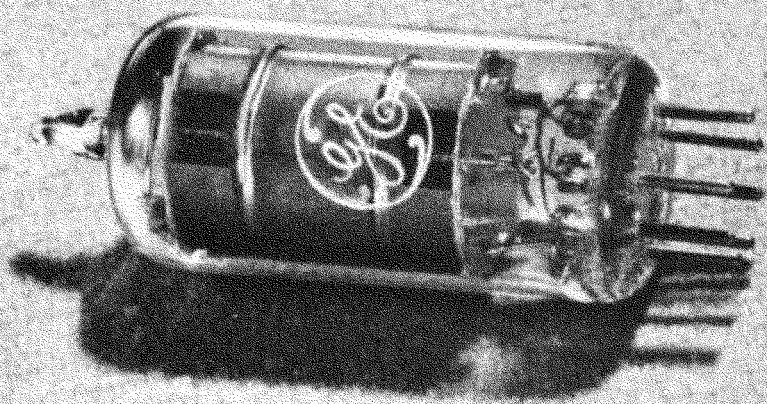




PENTODE

DESCRIPTION

The GL-6136 is a miniature sharp cutoff pentode 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.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential
Heater Voltage (A-c or D-c).....

Heater Current.....

Direct Interelectrode Capacitances

Grid—No. 1 to Plate, maximum

Input.....

Output.....

Mechanical Data

Mounting Position—Any

Envelope—T-5½ Glass

Base—Miniature Button 7-Pin, E7-1

.....	6.3 Volts
.....	0.3 Ampere
.....	Without Shield
.....	0.0035 uuf
.....	6.0 uuf
.....	5.0 uuf

GENERAL  ELECTRIC


Electra
TUB

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Electrical—Design Center Values		
Plate Voltage.....	300	Volts
Suppressor Voltage†.....	0	Volt
Screen Supply Voltage.....	300	Volts
Screen Voltage.....	150	Volts
Positive D-c Grid—No. 1 Voltage.....	0	Volt
Plate Dissipation.....	3.0	Watts
Screen Dissipation.....	0.65	Watt
Heater-Cathode Voltage.....	90	Volts
Mechanical		
Peak Impact Acceleration in Any Direction.....	600	G

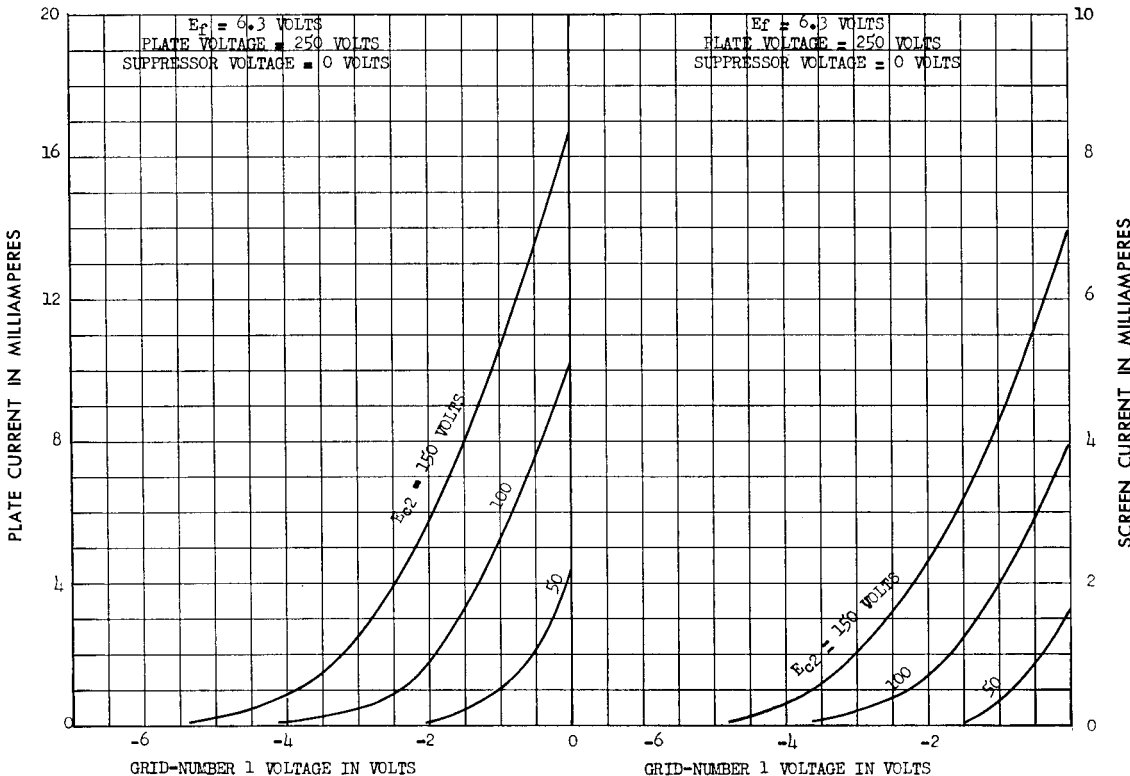
CHARACTERISTICS AND TYPICAL OPERATION

Class A ₁ Amplifier		
Plate Voltage.....	100	250 Volts
Suppressor Voltage†.....	0	0 Volt
Screen Voltage.....	100	150 Volts
Cathode Bias Resistor.....	150	68 Ohms
Plate Resistance, approximate.....	0.5	1.0 Megohm
Transconductance.....	3900	5200 Micromhos
Plate Current.....	5.0	10.6 Milliamperes
Screen Current.....	2.1	4.3 Milliamperes
Grid—No. 1 Voltage, approximate for I _b = 10 Microamperes.....	−4.2	−6.5 Volts

* With external shield No. 316 connected to pin 7.

† Pin 2 connected to pin 7 at socket.

**GL-6136
AVERAGE CHARACTERISTICS**



AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS

SCREEN VOLTAGE = 150 VOLTS

SUPPRESSOR VOLTAGE = 0 VOLTS

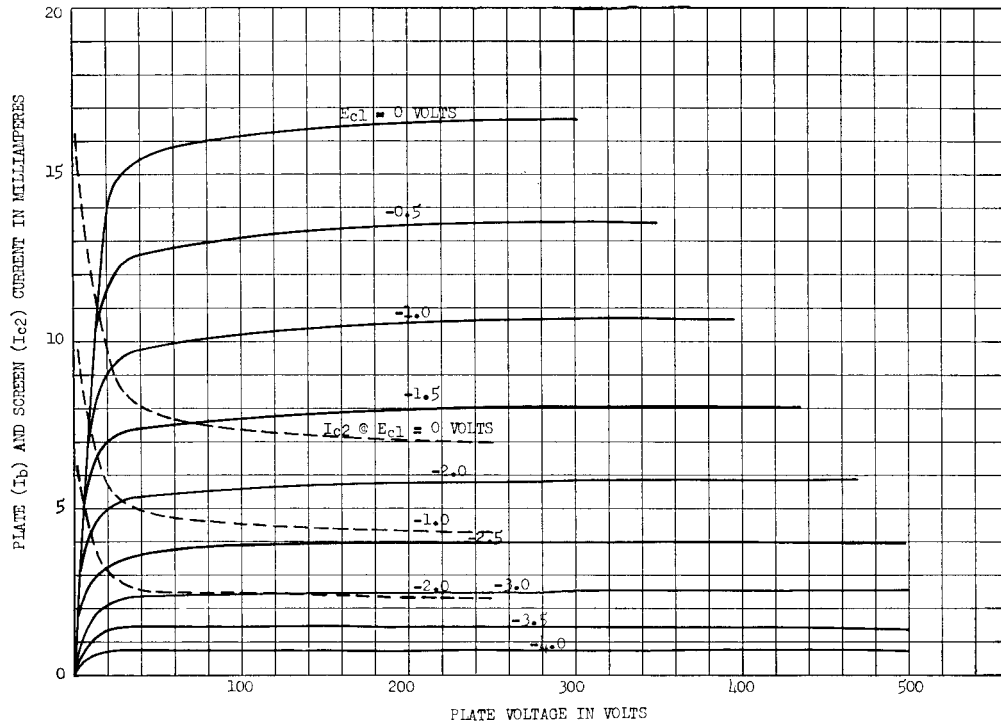
★★★★★

GL-6136

ETX-268

PAGE 3

5-52



K-69087-72A515

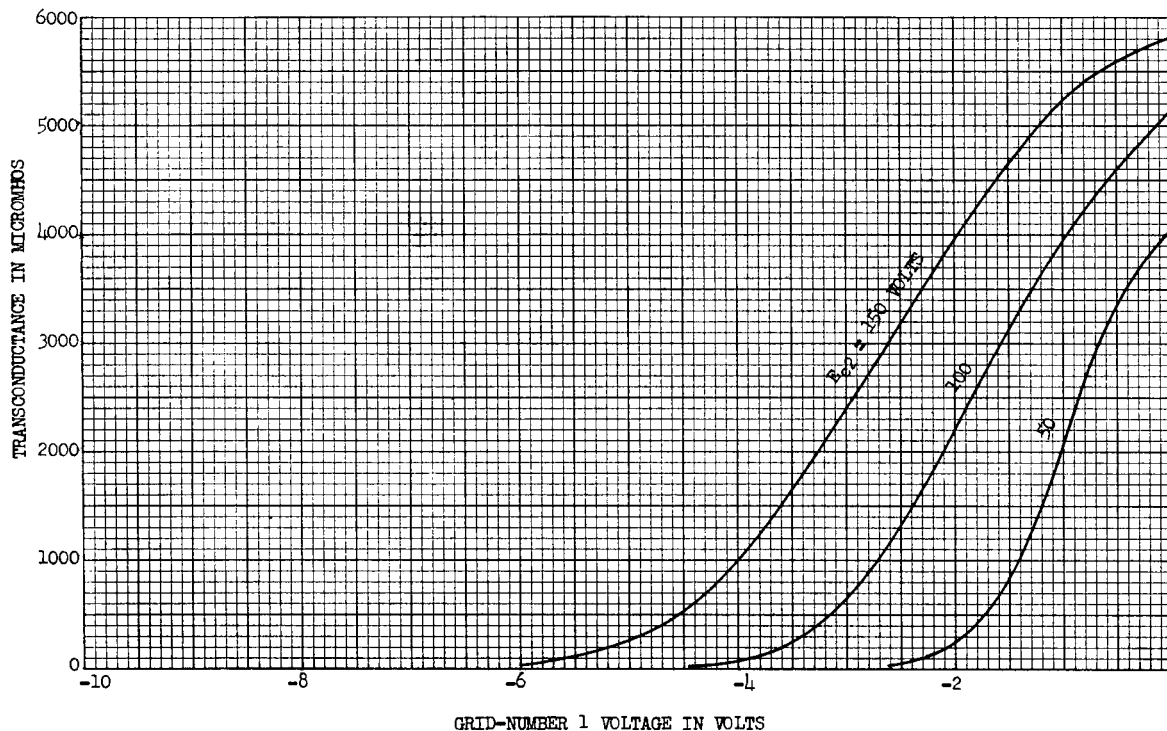
4-1-52

AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS

PLATE VOLTAGE = 250 VOLTS

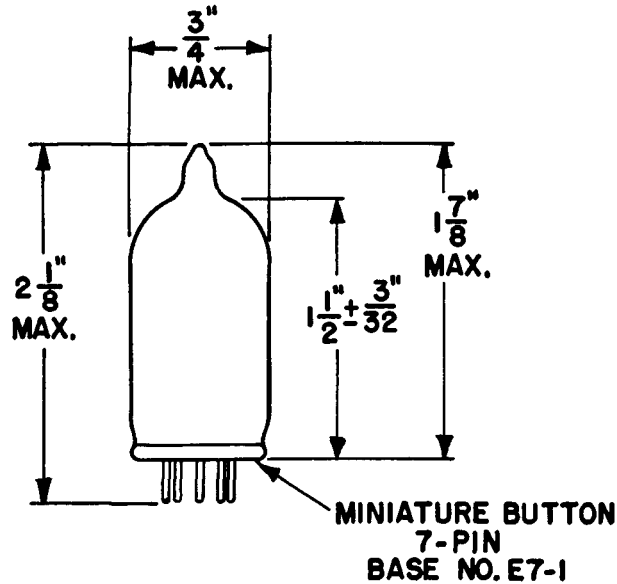
SUPPRESSOR VOLTAGE = 0 VOLTS



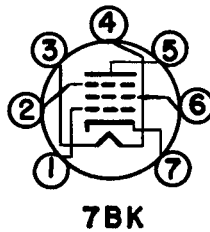
K-69087-72A517

4-1-52

OUTLINE
GL-6136



BASING DIAGRAM



- PIN 1: GRID NO.1
PIN 2: GRID NO.3 AND INTERNAL SHIELD
PIN 3: HEATER
PIN 4: HEATER
PIN 5: PLATE
PIN 6: GRID NO.2 (SCREEN)
PIN 7: CATHODE

N-15167AZ

4-3-52

Tube Department

GENERAL  ELECTRIC

Schenectady, N. Y.