DESCRIPTION AND RATING

PENTODE GL-6134
FIVE-STAR TUBE ★★★★★

The GL-6134 is a sharp-cutoff pentode intended for service as a wide-band radio-frequency or intermediate-frequency amplifier or as a video-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. Electrically and physically, the GL-6134 is a replacement for the 6AC7.

TECHNICAL INFORMATION

GENERAL

Electrical

Cathode - Coated Unipotential

Heater Voltage (A-c or D-c) 6.3 Volts
Heater Current 0.45 Ampere

Direct Interelectrode Capacitances*
Grid-No. 1 to Plate, maximum 0.015 uuf
Input 11 uuf
Output 5.0 uuf

Mechanical

Mounting Position - Any
Envelope - MT-8, Metal Shell
Base - B8-21, Small Wafer Octal 8-Pin

MAXIMUM RATINGS

Electrical - Design-center Values

Plate Voltage 300 Volts
Screen Supply Voltage 300 Volts
Screen Voltage - See Screen Rating Chart
Plate Dissipation 3.0 Watts
Screen Dissipation 0.38 Watt
Heater-cathode Voltage
Heater Positive with Respect to Cathode 90 Volts
Heater Negative with Respect to Cathode 90 Volts
Grid-No. 1 Circuit Resistance with Cathode Bias†
  Fixed Screen Voltage 0.25 Megohm
  Series Screen Resistor 0.5 Megohm

Mechanical

Peak Impact Acceleration‡ 450 G

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

Plate Voltage 300 Volts
Suppressor Voltage § 0 Volt
Screen Voltage 150 Volts
Cathode-bias Resistor 160 Ohms
Plate Resistance, approximate 1.0 Megohm
Transconductance 9000 Micromhos
CHARACTERISTICS AND TYPICAL OPERATION (CONT'D)
Class A1 Amplifier (Cont'd)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Plate Current</td>
<td>10 Milliamperes</td>
</tr>
<tr>
<td>Screen Current</td>
<td>2.5 Milliamperes</td>
</tr>
<tr>
<td>Grid-No. 1 Voltage, approximate</td>
<td>-10 Volts</td>
</tr>
<tr>
<td>Ib = 10 Microamperes</td>
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* With pin 1 connected to pin 5.
† Operation with fixed bias is not recommended.
‡ Forces in any direction as applied by the Navy-type, High Impact (flyweight) Shock Machine for Electronic Devices or its equivalent.
§ In radio-frequency and intermediate-frequency stages, the suppressor should be connected directly to ground to minimize feedback.