DESCRIPTION

The GL-5670 is a 9-pin miniature, high-frequency twin triode designed for reliable life under conditions of intermittent operation.

GENERAL

Electrical Data
Cathode—Coated Unipotential
Heater Voltage, a-c or d-c .................................................. 6.3 Volts
Heater Current ................................................................. 0.350 Ampere

Mechanical Data
Envelope ................................................................. T-6½ Glass
Base ................................................................. E9-1 Glass Button 9-pin
Maximum Diameter .................................................. ¾ Inch
Maximum Seated Height .................................. 1½ Inches
Maximum Over-all Length .................................. 1 ¾ Inches
Mounting Position—Any

Direct Interelectrode Capacitances
Without External Shield
Plate to Grid, Each Section* .................. 1.3 uuf
Plate to Cathode, Each Section* .......... 1.0 uuf
Grid to Cathode, Each Section* .......... 2.2 uuf
Plate to Plate, Nominal .................. 0.05 uuf
Plate to Plate, Maximum .................. 0.10 uuf

* Internal shield and heater connected to cathode.
TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

Maximum Ratings, Design Center

Each Triode Section

Plate Voltage ........................................... 300 Volts
Plate Dissipation ....................................... 1.5 Watts
Plate Current ........................................... 18 Milliamperes
Heater-Cathode Voltage .................................. 0.90 Volts

Typical Operation

Class A1 Operation

Plate Voltage ........................................... 150 Volts
Cathode Resistor, Per Section ......................... 240 Ohms
Plate Current, Per Section .............................. 8.2 Milliamperes
Transconductance, Per Section ......................... 5500 Micromhos
Amplification Factor .................................... 35
Cut-off Grid Voltage, $I_B = 75\mu A$ approx .......... −10 Volts

Class AB2 Operation

Plate Voltage ........................................... 300 Volts
Cathode Resistor ........................................ 800 Ohms
A-F Grid-to-Grid Voltage, RMS ......................... 14 Volts
Zero-Signal Plate Current, Per Section ............... 4.9 Milliamperes
Maximum-Signal Plate Current, Per Section .......... 6.3 Milliamperes
Load Impedance, Plate-to-Plate ......................... 2700 Ohms
Total Harmonic Distortion .............................. 10 Per Cent
Maximum-Signal Power Output ........................... 1.0 Watt

GL-5670

AVERAGE PLATE CHARACTERISTICS

$E_i = 6.3$ VOLTS A-C

[Graph showing plate characteristics]
GL-5670
AVERAGE CHARACTERISTICS
$E_i = 6.3$ VOLTS A-C

Amplification Factor

Transconductance in Micromhos

Grid Voltage in Volts
GL-5670 OUTLINE

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

BASING DIAGRAM

8CJ

TERMINAL CONNECTIONS

Pin 1—Heater
Pin 2—Cathode (Section 2)
Pin 3—Grid (Section 2)
Pin 4—Plate (Section 2)
Pin 5—Internal Shield

Pin 6—Plate (Section 1)
Pin 7—Grid (Section 1)
Pin 8—Cathode (Section 1)
Pin 9—Heater

N-15122AZ

Tube Department
GENERAL ELECTRIC
Schenectady, N. Y.

6-52 (2SM)