



TRIODE

DESCRIPTION

The GL-1626 is an indirectly heated cathode transmitting triode with a 12.6-volt heater. Designed especially for r-f oscillator service, it is useful in applications requiring unusual stability of

characteristics. The GL-1626 may be operated at frequencies as high as 30 megacycles at maximum ratings, and at frequencies as high as 90 megacycles at reduced ratings.

TECHNICAL INFORMATION

These data are for reference only. For design information see the specifications.

GENERAL CHARACTERISTICS

Number of electrodes.....	3
Electrical	
Cathode—Indirectly heated	
Voltage.....	12.6 volts
Current.....	0.25 ampere
Amplification factor.....	5
Direct interelectrode capacitances	
Grid-plate.....	4.4 micromicrofarads
Input.....	3.2 micromicrofarads
Output.....	3.4 micromicrofarads
Frequency for maximum ratings.....	30 megacycles


Electronic
TUBE

GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

Mechanical

Type of cooling—convection

Ambient temperature.....60 centigrade

Net weight, approximate.....4 ounces

Shipping weight, approximate.....3 pounds

CLASS C RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR

Key-down conditions per tube without modulation‡

	Typical Operation	Maximum Ratings
D-c plate voltage.....	250	250 volts
D-c grid voltage*		
From a fixed supply of.....	—70	—150 volts
From a grid resistor of.....	14000	ohms
From a cathode resistor of.....	2300	ohms
D-c plate current.....	25	25 milliamperes
D-c grid current, approximate Δ	5	8 milliamperes
Plate input.....		6.25 watts
Plate dissipation.....		5 watts
Peak r-f grid voltage.....	105	volts
Driving power, approximate Δ	0.5	watts
Power output, approximate.....	4	watts

‡Modulation, essentially negative, may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

*When the tube is used in the final amplifier or a preceding stage of a transmitter designed for break-in operation and oscillator keying, a small amount of fixed bias must be used to maintain the plate current at a low value. A fixed bias of at least —35 volts must be used with plate voltage of 250 volts.

Δ Subject to wide variations.

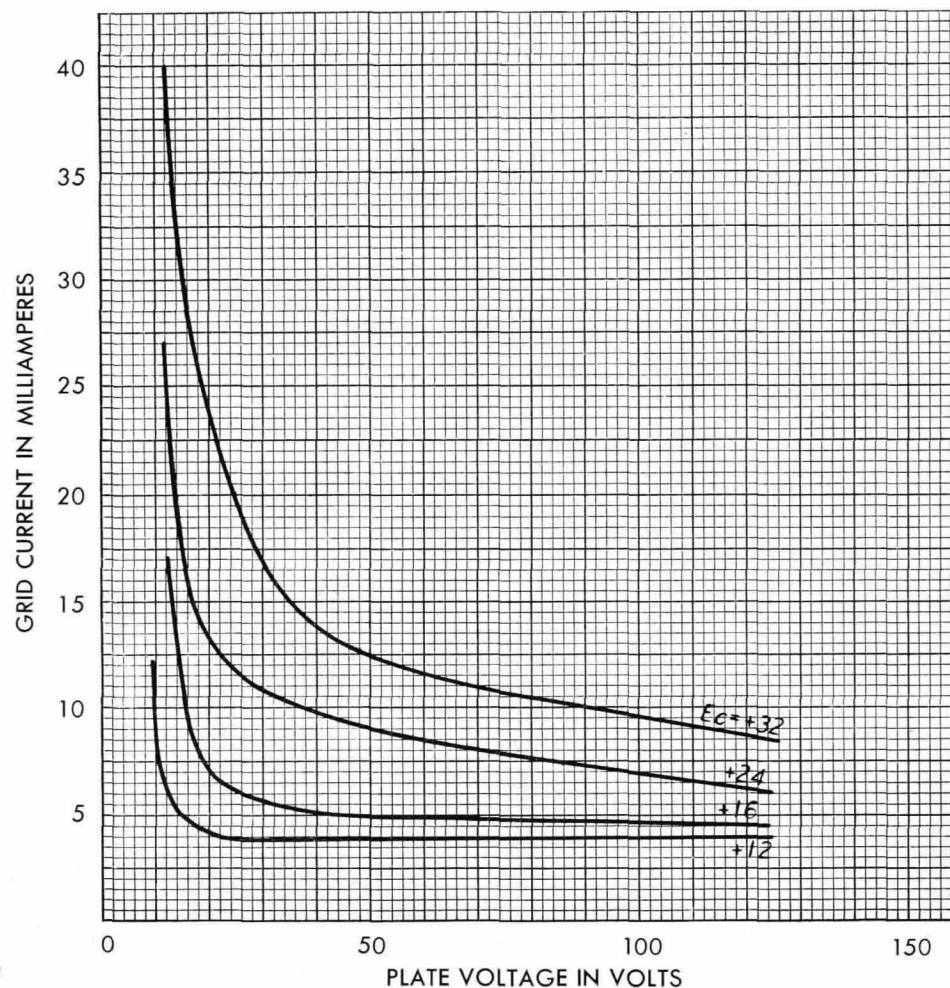
APPLICATION NOTES

The GL-1626 can be operated at frequencies as high as 30 megacycles. The tube may be operated at higher frequencies provided the maximum values of plate voltage and power input are reduced as the frequency is raised (other maximum ratings are the same as shown above).

The tabulation below shows the highest percentage of maximum plate voltage and power input that can be used up to 90 megacycles for the various classes of service. Special attention should be given to adequate ventilation of the bulb at these frequencies.

Frequency.....	30	60	90 megacycles
Percentage of maximum rated plate voltage and plate input			
Class C unmodulated.....	100	96	93 per cent

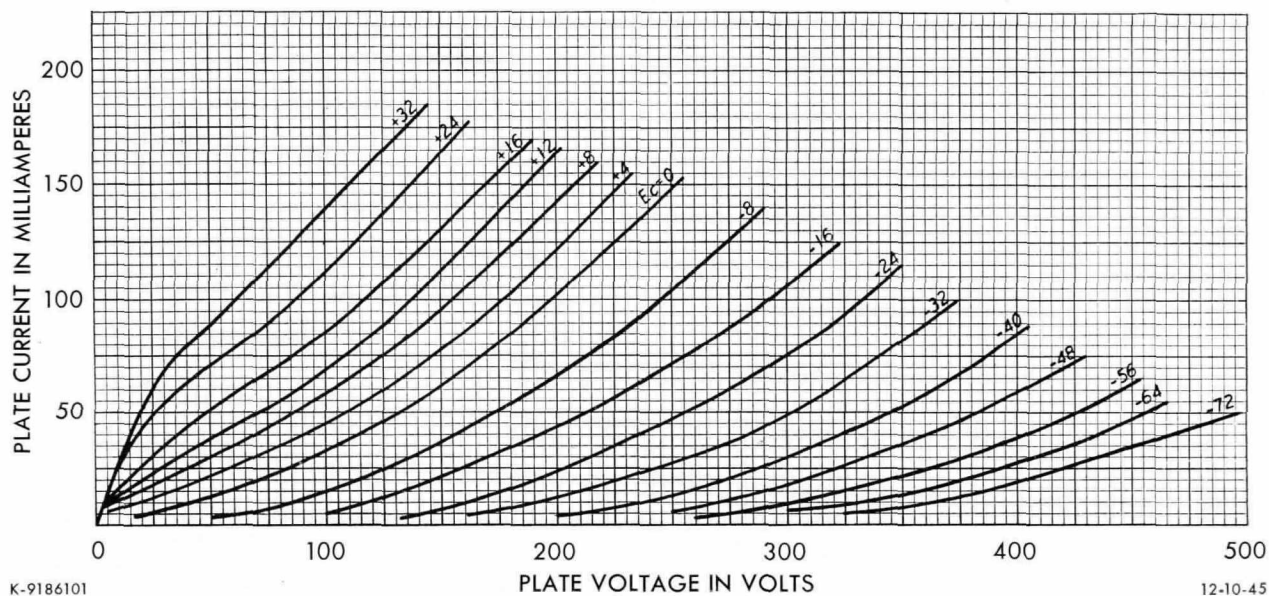
GL-1626 TYPICAL CHARACTERISTICS

 $E_f = 12.6$ VOLTS

K-9186102

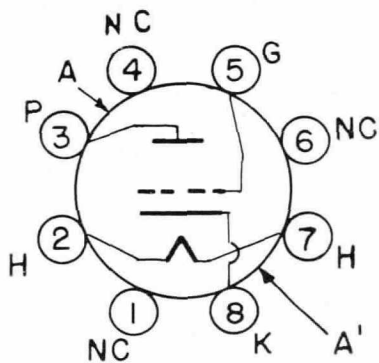
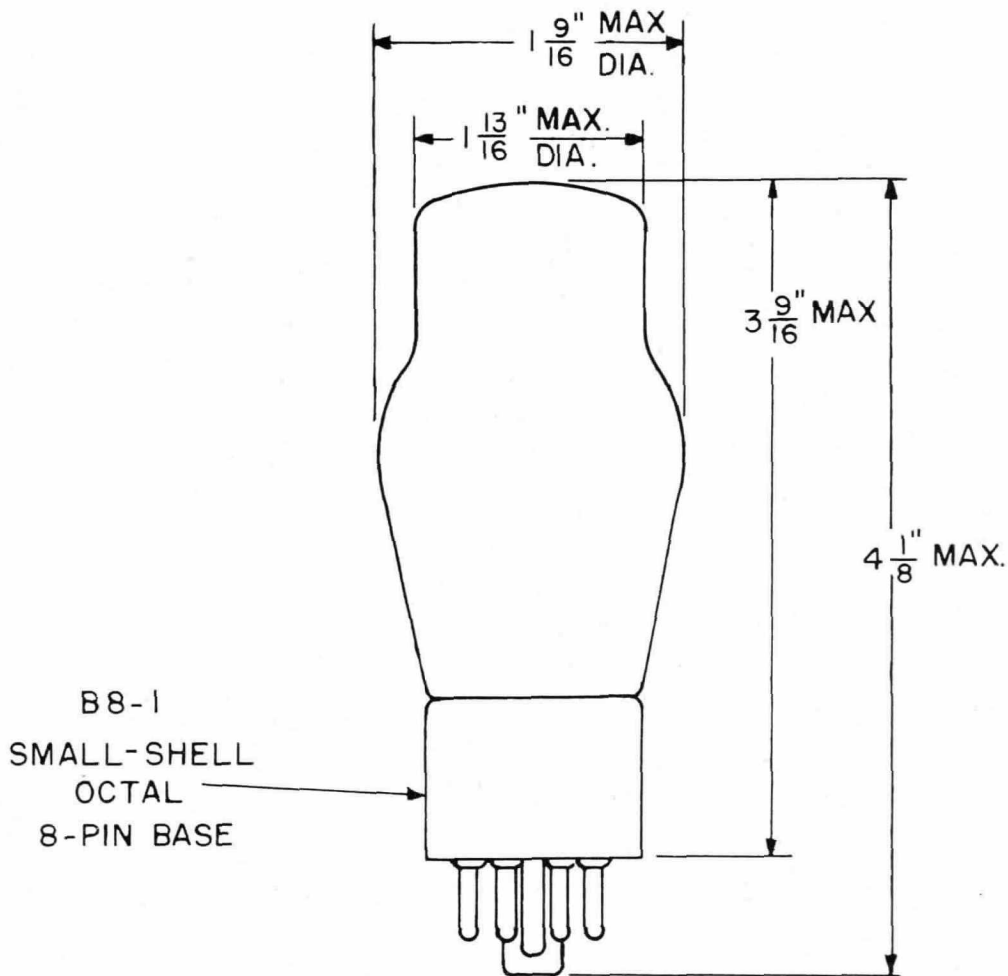
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GL-1626 AVERAGE PLATE CHARACTERISTICS



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AA' = PLANE OF ELECTRODES

GL-1626 OUTLINE

K-9186113

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