



TRIODE

DESCRIPTION

The GL-7C29 is a three-electrode tube designed for use as a Class C amplifier. The anode is forced-air cooled, and capable of dissipating 500 watts.

The cathode is a thoriated-tungsten filament. Maximum ratings apply up to 110 megacycles.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

Electrical Data—General	Minimum	Nominal	Maximum	
Filament voltage	10.0	10.5	11.0	volts
Filament current at nominal voltage	25.5	28.0	30.5	amperes
Filament starting current			50	amperes
Cold resistance of filament		0.052		ohm
Amplification factor	25	29	33	
$I_b = 200$ ma				
$E_c = -50$ volts d-c				
Interelectrode capacitances				
Grid-plate	6.6	7.6	8.6	micromicrofarads
Grid-filament	8.4	10.2	12.0	micromicrofarads
Plate-filament	0.34	0.45	0.56	micromicrofarad
Frequency for maximum ratings			110	megacycles


Electronic
TUBE

GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

Mechanical Data—General

Mounting position.....			vertical
Type of cooling.....			forced air
Maximum incoming air temperature.....		50	centigrade
Required air flow on anode			
Anode dissipation.....	500	335	watts
Air flow.....	75	60	cubic feet per minute
Pressure required.....	3	2	inches water
Maximum glass temperature.....		150	centigrade
Net weight—approximate.....		2 $\frac{1}{4}$	pounds

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

CLASS C RADIO-FREQUENCY AMPLIFIER AND OSCILLATOR

(Key-down conditions per tube without modulation)*

Maximum Ratings

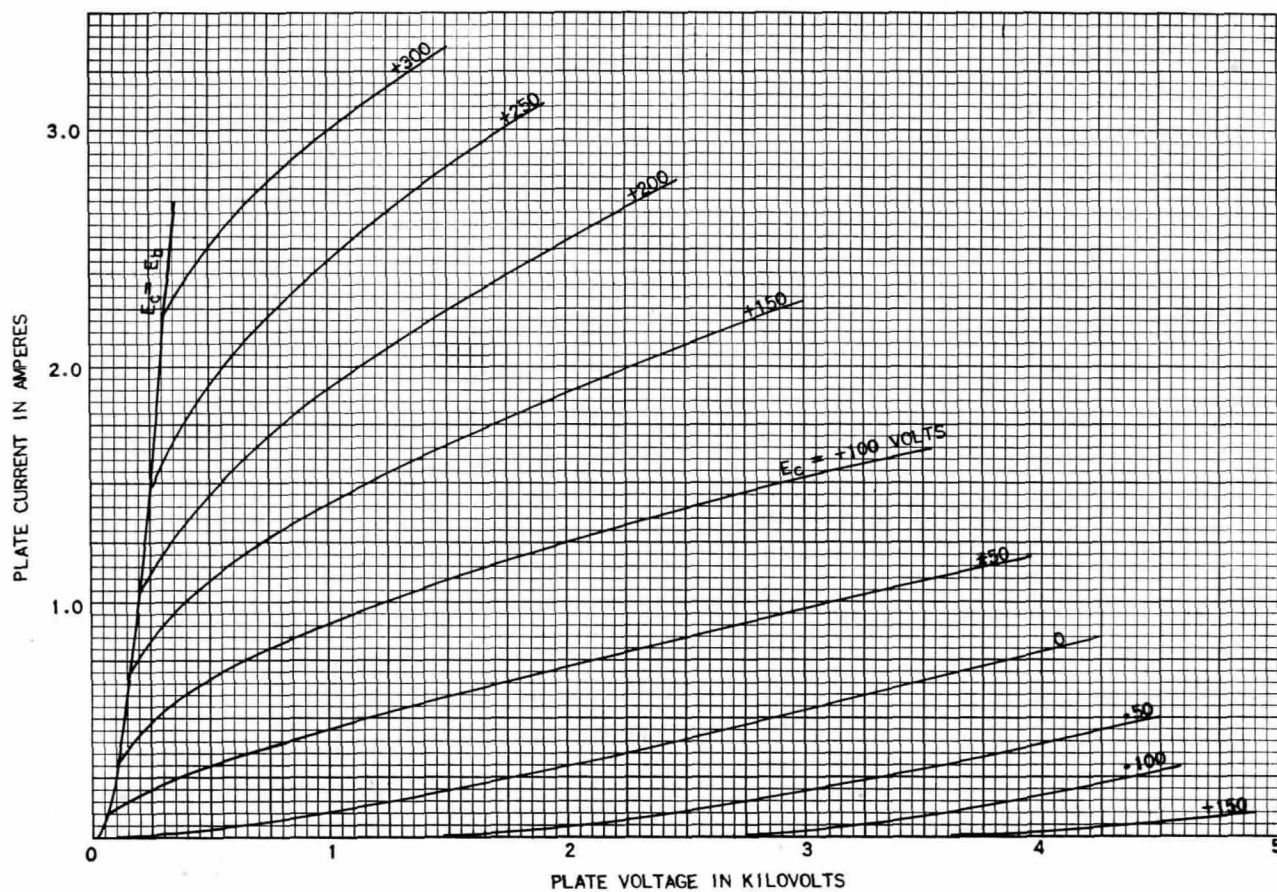
Frequency.....	110	megacycles
D-c plate voltage.....	3000	volts
D-c grid voltage.....	—500	volts
D-c plate current.....	400	milliamperes
D-c grid current.....	100	milliamperes
Plate dissipation.....	500	watts
Plate input.....	1200	watts

Typical Operation

Frequency.....	110	megacycles
D-c plate voltage.....	2800	volts
D-c grid voltage.....	—250	volts
D-c plate current.....	330	milliamperes
D-c grid current.....	75	milliamperes
Plate dissipation.....	325	watts
Plate power output.....	600	watts

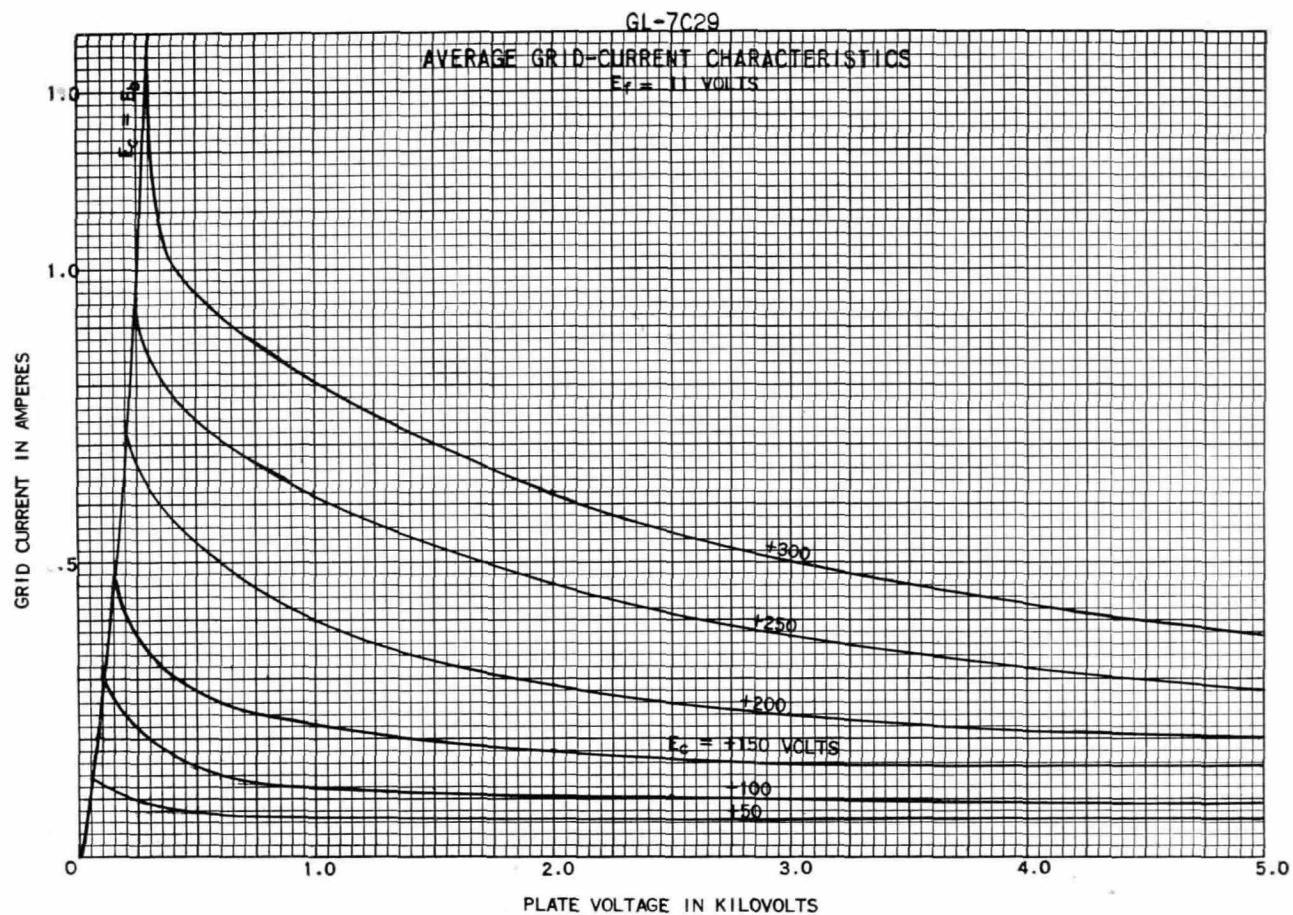
*Modulation, essentially negative, may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

GL-7C29
AVERAGE PLATE CHARACTERISTICS
 $E_i = 11$ VOLTS

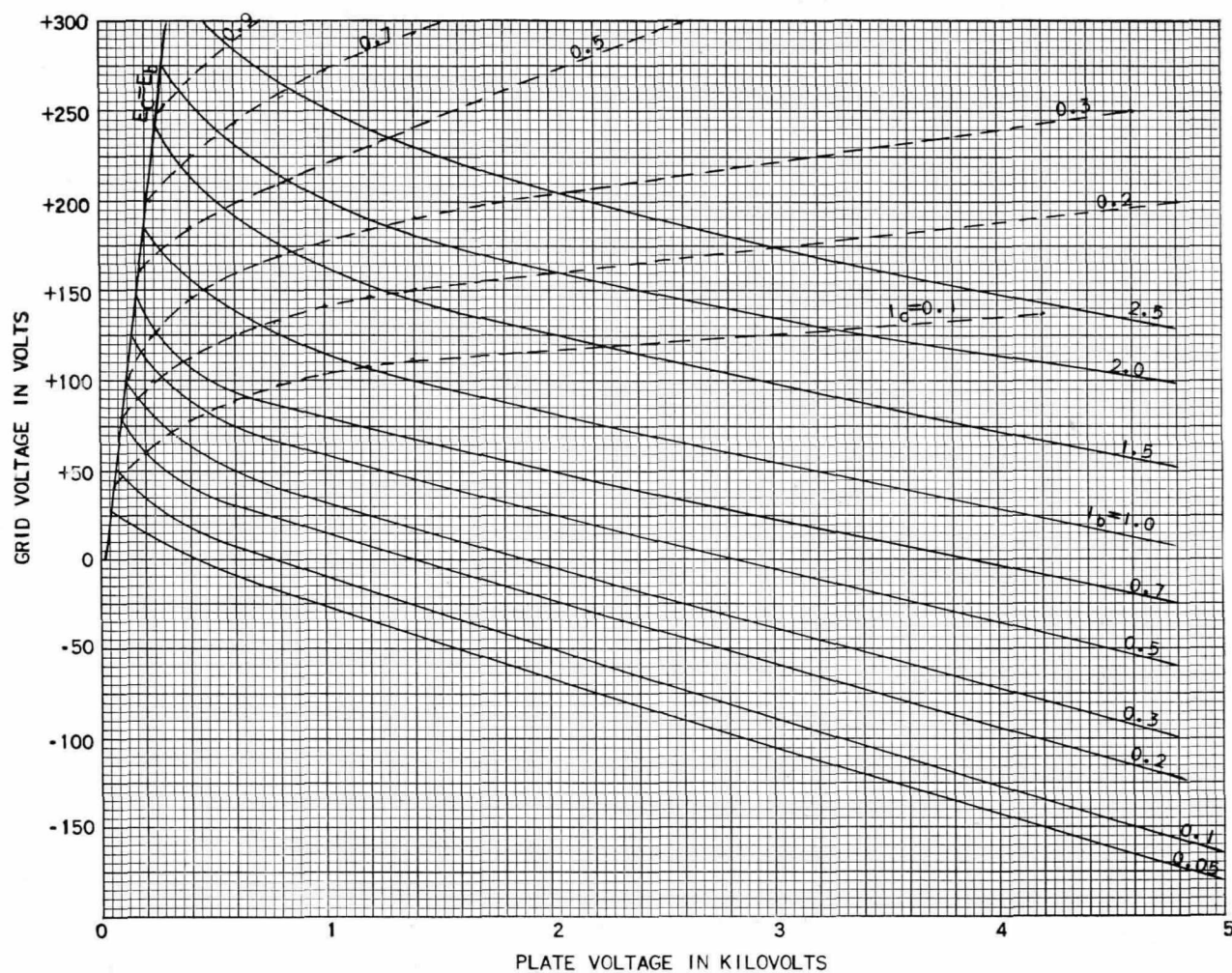


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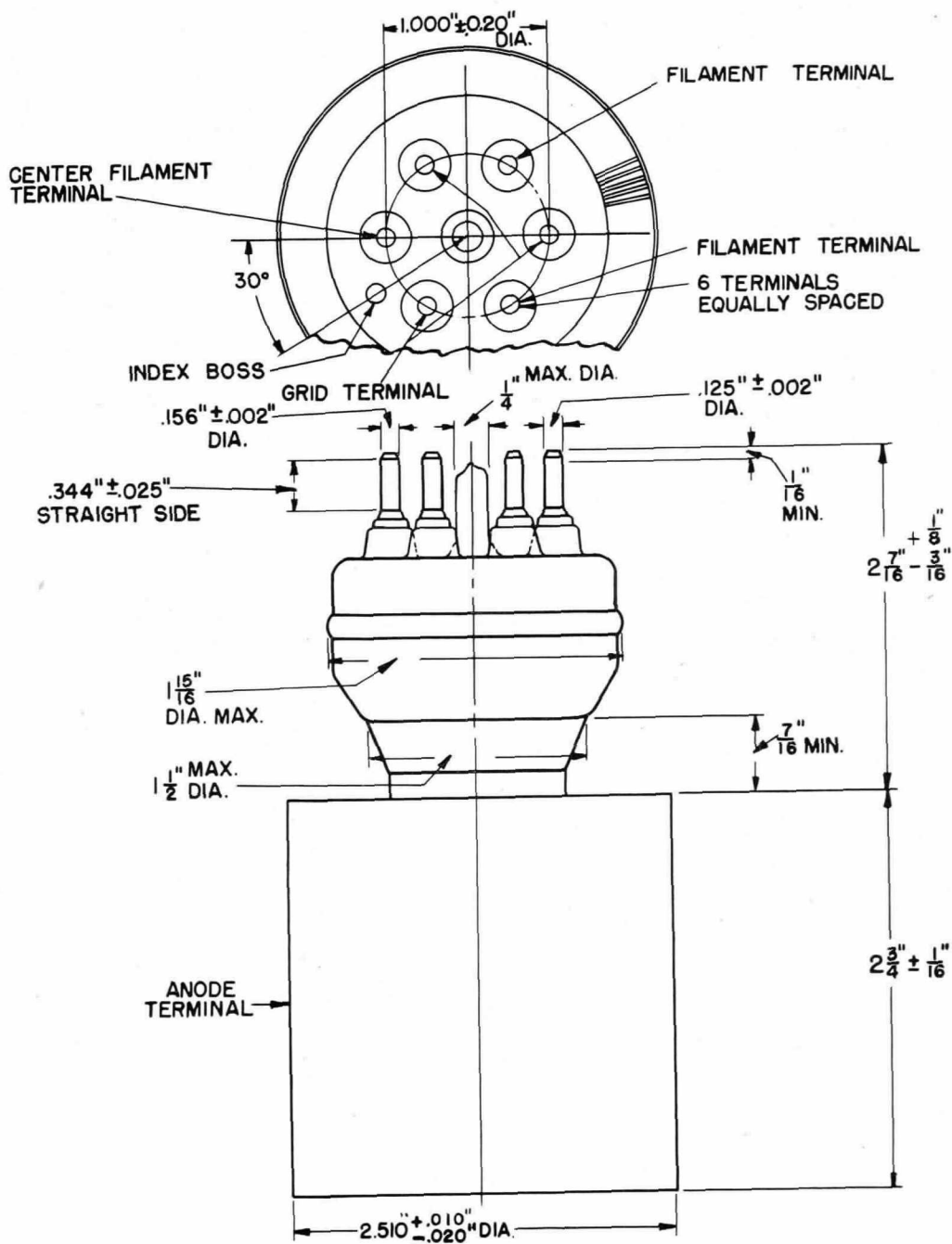


GL-7C29
CHARACTERISTICS
 $E_f = 11$ VOLTS



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GL-7C29 OUTLINE

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