



PLIOTRON

DESCRIPTION

The GL-8002 is a three-electrode transmitting tube designed for use as a radio-frequency power amplifier at high frequencies. Multiple leads for both the filament and grid connectors minimize the inductance to these electrodes. Maximum ratings may be used up to a frequency of 150 megacycles and reduced ratings up to 300 megacycles.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes 3

Electrical

Cathode—Filamentary

Filament voltage 16 volts

Filament current 38 amperes

Direct interelectrode capacitances, approx

Plate to grid 8.7 micromicrofarads

Grid to filament 10.2 micromicrofarads

Plate to filament 0.90 micromicrofarad

Mechanical

Type of cooling Water and forced air

Operating position Vertical, anode down


Electronic
TUBE

GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

CLASS B RADIO-FREQUENCY POWER AMPLIFIER

Carrier conditions per tube for use with a maximum modulation factor of 1.0

D-c plate voltage	3500	volts
D-c plate current	0.6	ampere
Plate input	1800	watts
Plate dissipation	1200	watts

CLASS C RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR, PLATE MODULATED

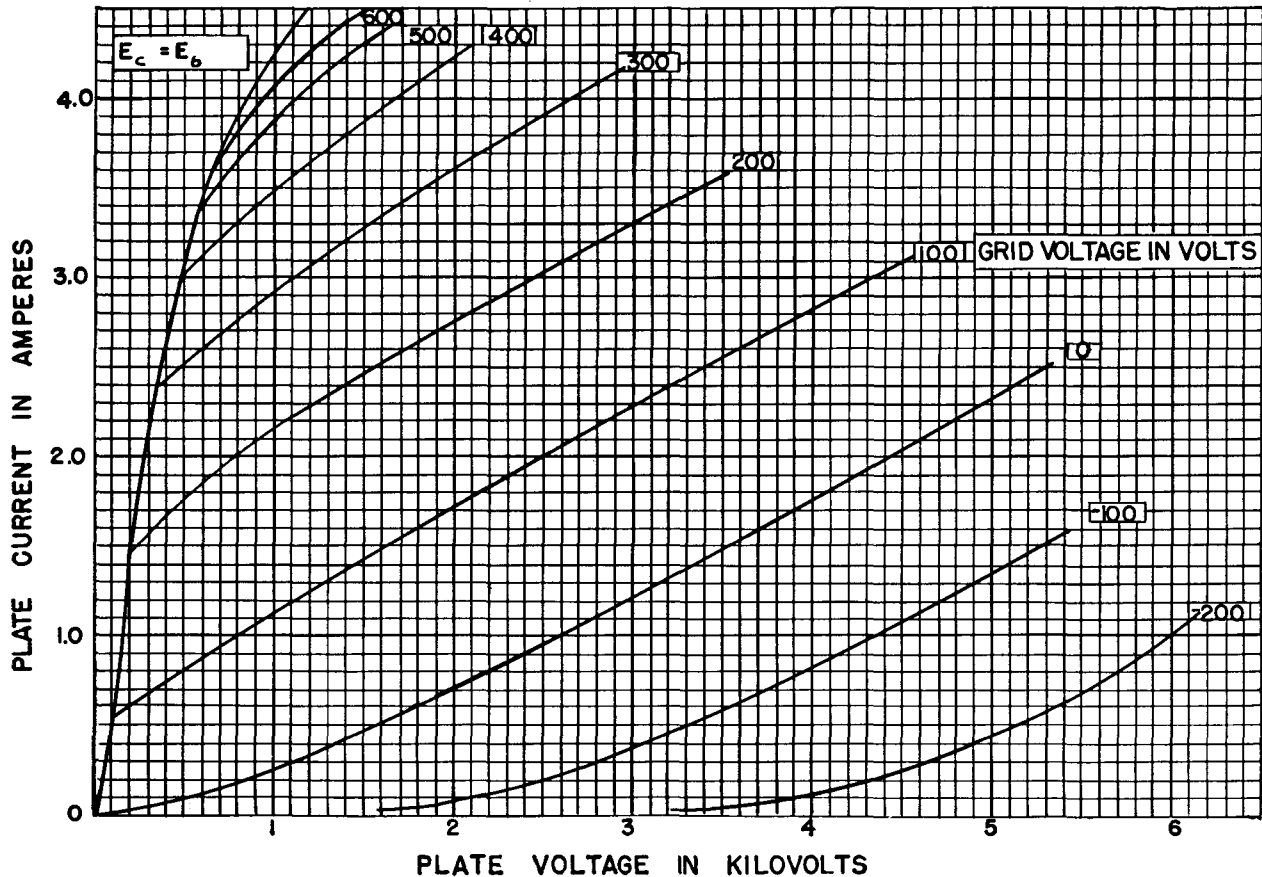
Carrier conditions per tube for use with a maximum modulation factor of 1.0

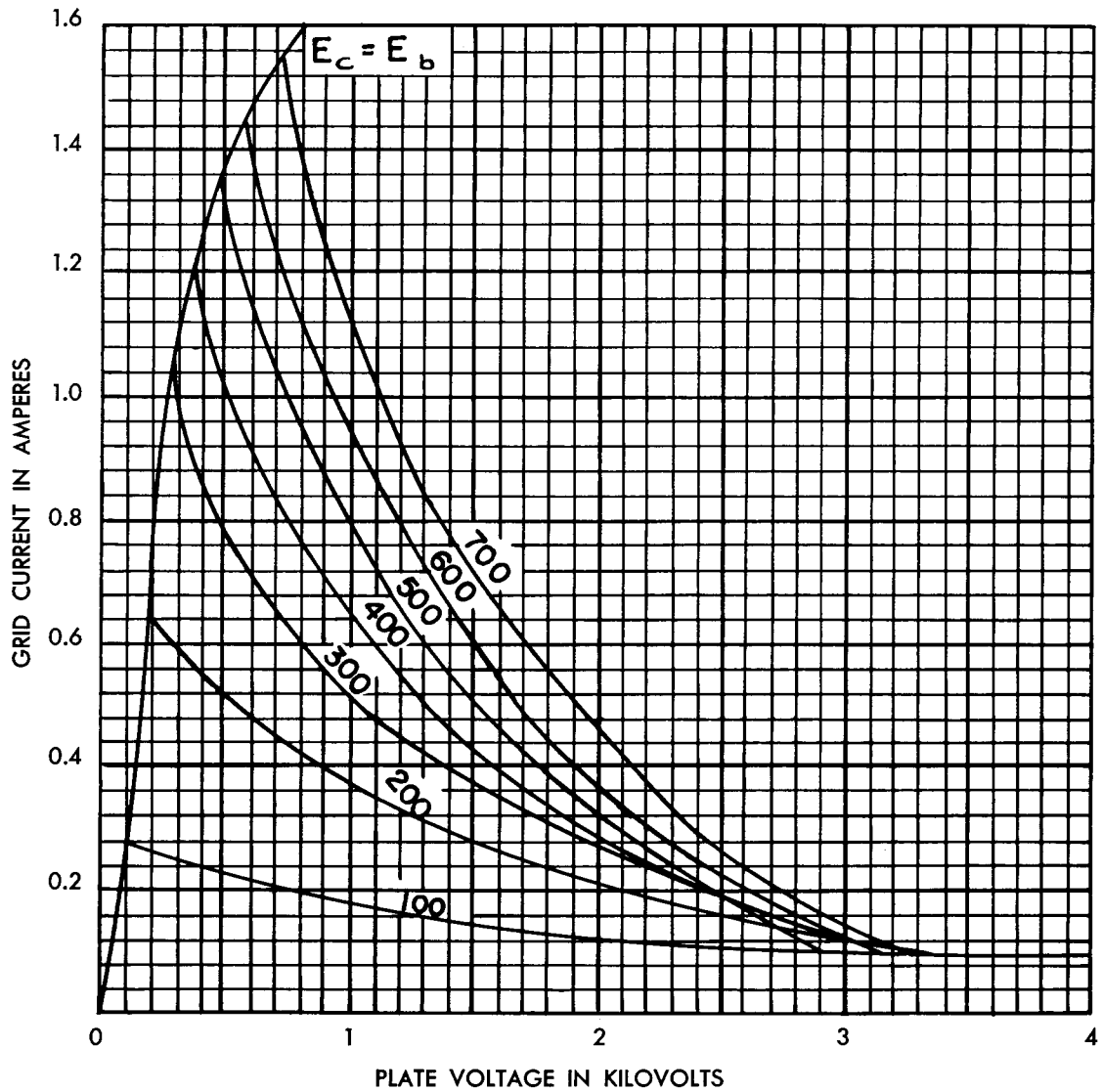
D-c plate voltage	2500	volts
D-c grid voltage	-500	volts
D-c plate current	0.5	ampere
D-c grid current	0.1	ampere
Plate input	1250	watts
Plate dissipation	750	watts

CLASS C RADIO-FREQUENCY AMPLIFIER AND OSCILLATOR, TELEGRAPHY

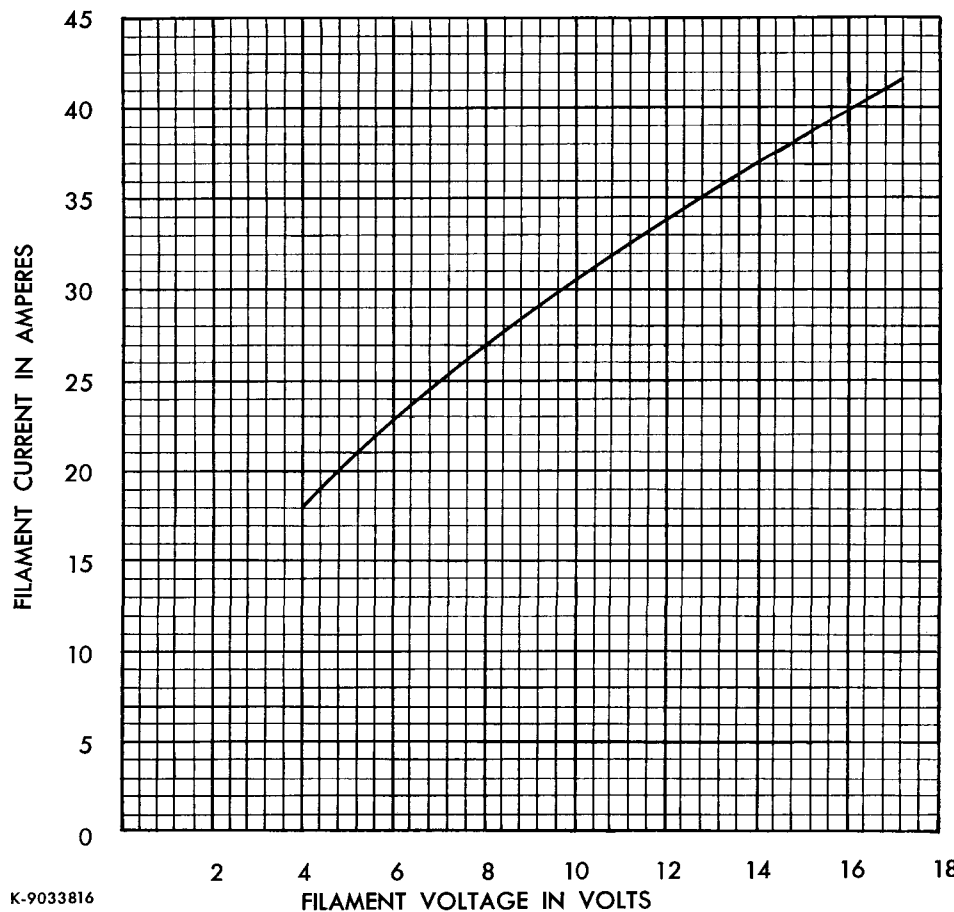
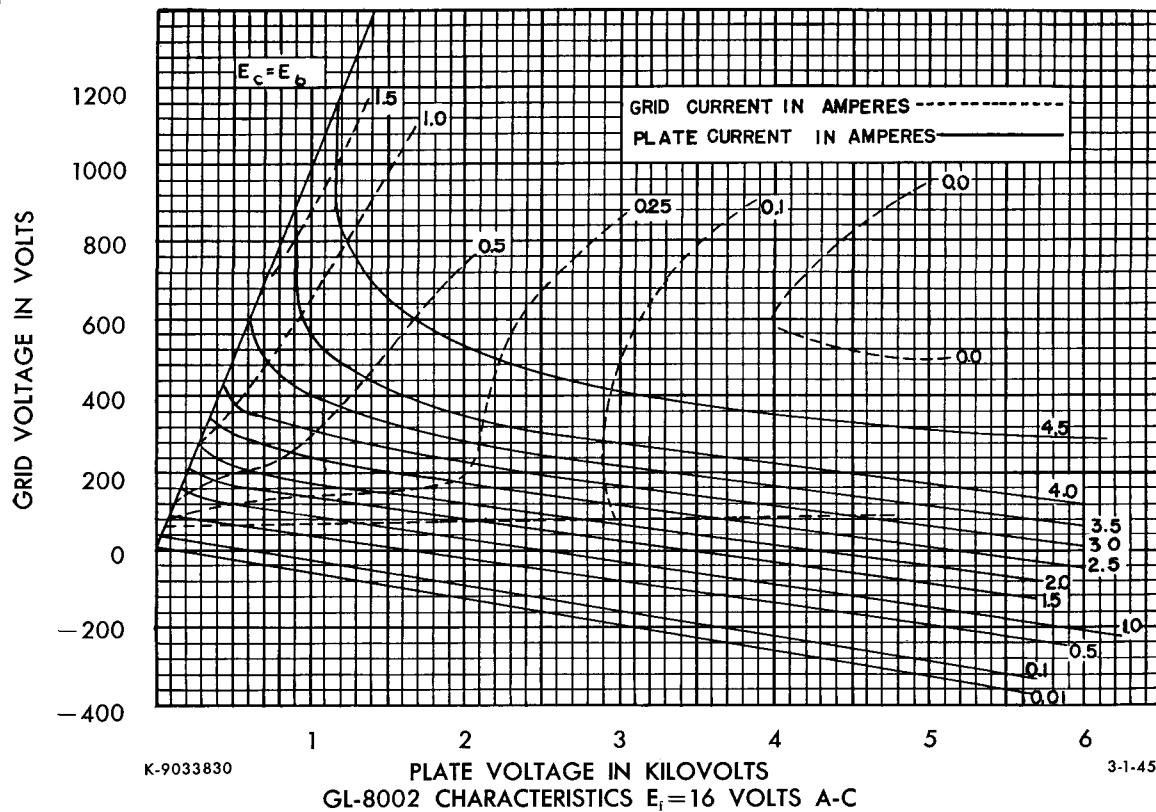
Key-down conditions per tube without modulation. Essentially negative modulation may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

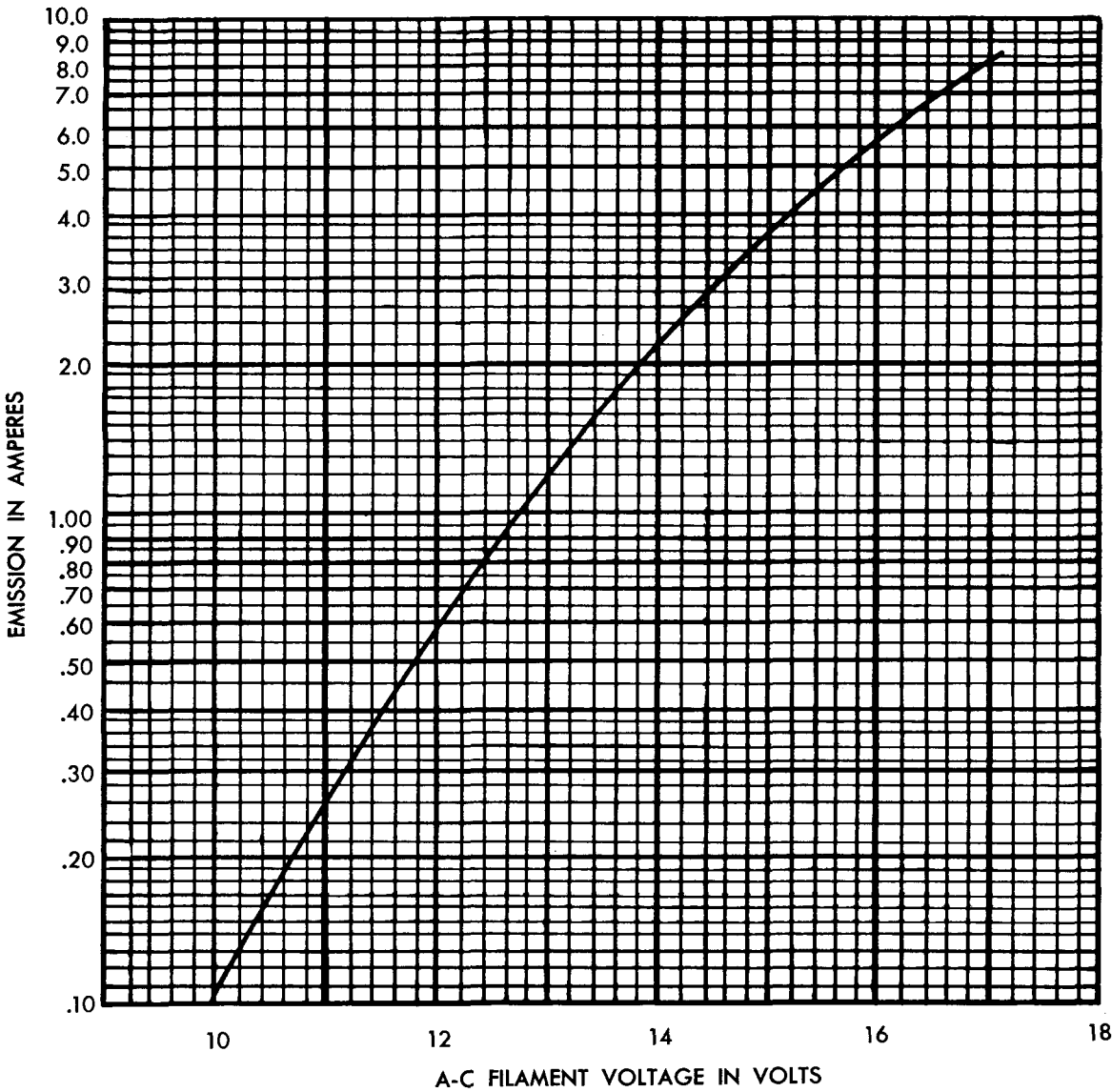
D-c plate voltage	3500	volts
D-c grid voltage	-500	volts
D-c plate current	1.0	ampere
D-c grid current	0.1	ampere
Plate input	3000	watts
Plate dissipation	1200	watts





GL-8002 TYPICAL GRID-PLATE TRANSFER CHARACTERISTICS
($E_i = 16.0$ VOLTS A-C)

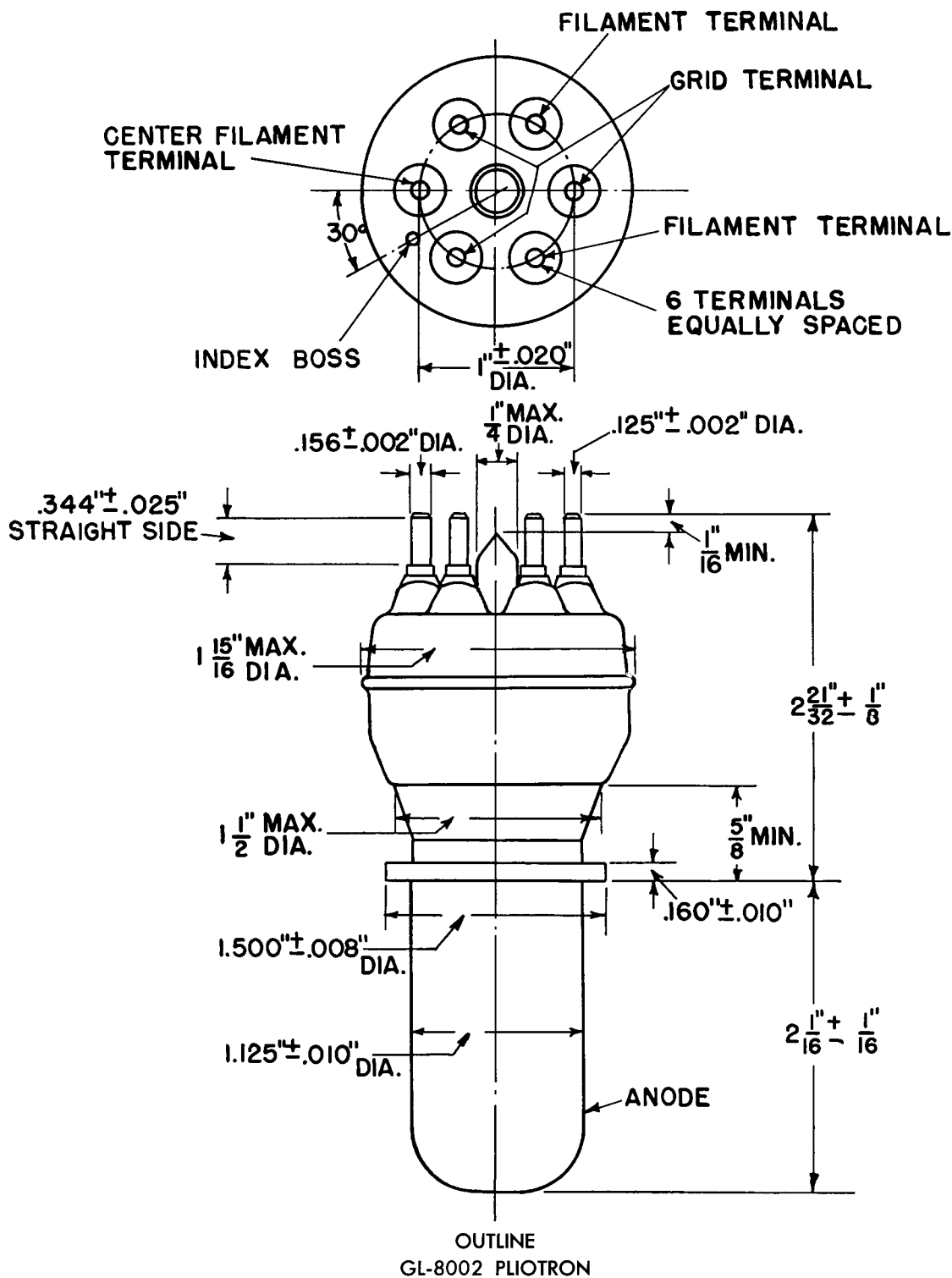




GL-8002 AVERAGE EMISSION CHARACTERISTIC

K-9033817

2-22-45



K-6912329

9-26-44

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GENERAL ELECTRIC
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