

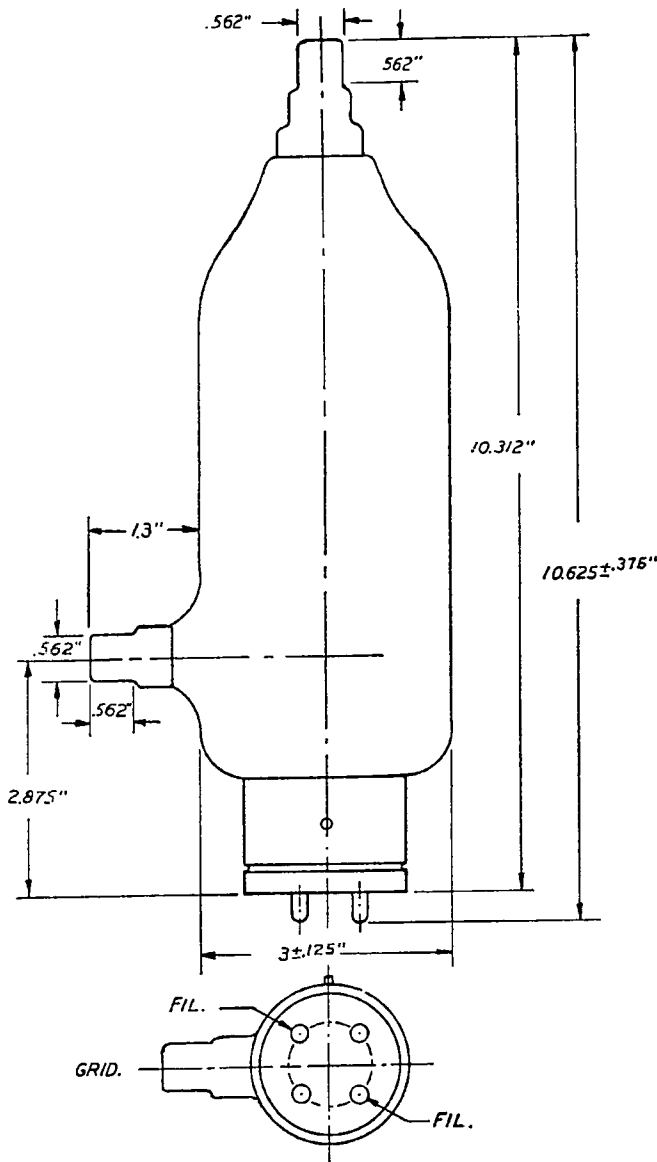
PACIFIC ELECTRONICS

MANUFACTURING PLANT & LABORATORY
LOS GATOS, CALIFORNIA

POWER

TRIODE

TYPE 4C32



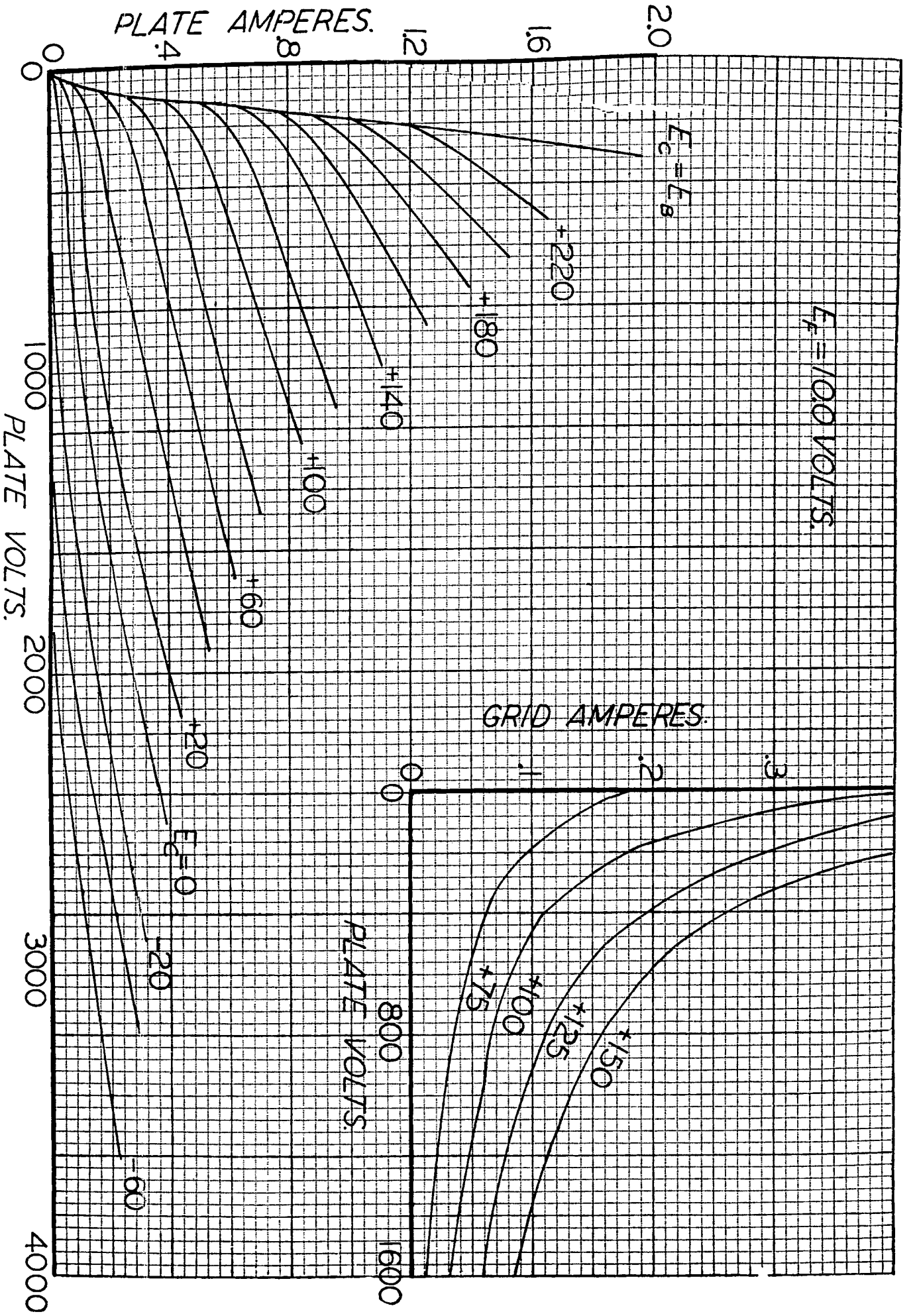
Filament	Thoriated Tungsten
Voltage	10.0 volts ac
Current	4.5 amps
Amplification Factor	30
Mutual Conductance	
at $I_b - 150$ ma	5500 Micromhos

DIRECT INTERELECTRODE CAPACITANCES:

Input, Grid-Filament	5.5 mmf
Output, Plate Filament	1.1 mmf
Grid to Plate	5.8 mmf

The upper frequency limit of the 4C32 at full ratings is 60 mc. It may be operated above this frequency if the plate voltage and power input are appropriately decreased as the frequency is increased, and if adequate ventilation of the bulb is provided.

DIATHERMY



$E_f = 100$ VOLTS.

$E_c = E_b$

+220

+180

+140

+100

+60

+20

$E_g = 0$

-20

-60

GRID AMPERES.

3

2

1

0

+150

+125

+100

+75

0

PLATE VOLTS.

800

1600

0

4

8

12

16

2.0

1000

PLATE VOLTS.

2000

3000

4000

CLASS "B" AUDIO-FREQUENCY POWER AMPLIFIER, TWO TUBES

	<u>Typical Operation</u>	<u>Max. Ratings</u>	
D-C Plate Voltage	2000	3000	volts
Max. Sig. Plate Current (per tube) *		275	ma
D-C Max. Sig. Plate Input (per tube) *		825	watts
Plate Dissipation (per tube) *		200	watts
D-C Grid Voltage	-50		volts
Peak A-F Input Voltage (grid to grid)	380		volts
Zero Signal Plate Current	60		ma
Max. Sig. Plate Current*	460		ma
Max. Sig. Driving Power (approx.)	15		watts
Effective Load (plate to plate)	10000		ohms
Max. Sig. Plate Power Output	650		watts

* (Averaged over any audio-frequency cycle)

CLASS "B" RADIO-FREQUENCY POWER AMPLIFIER

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

	<u>Typical Operation</u>	<u>Max. Ratings</u>	
D-C Plate Voltage	2000	3000	volts
D-C Grid Voltage	-60	-500	volts
D-C Plate Current	140	225	ma
Plate Input		290	watts
Plate Dissipation		200	watts
Peak R-F. Grid Input Voltage	100		volts
D-C Grid Current, approx.	1		ma
Driving Power, approx. (at crest of A-F cycle)	3		watts
Plate Power Output	80		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)

	<u>Typical Operation</u>	<u>Max. Ratings</u>	
D-C Plate Voltage	2000	2500	volts
D-C Grid Voltage	-200	-500	volts
D-C Plate Current	250	300	ma
D-C Grid Current	20	60	ma
Plate Input		750	watts
Plate Dissipation		150	watts
Peak R-F Grid Input Voltage	450		volts
Driving Power	15		watts
Plate Power Output	375		watts

CLASS "C" RADIO-FREQUENCY AMPLIFIER & OSCILLATOR

(Key down conditions per tube without modulation. Modulation, essentially negative, may be used if positive peak of A-F envelope does not exceed 115% of carrier conditions.)

	<u>Typical Operation</u>	<u>Max. Ratings</u>	
D-C Plate Voltage	2000	3000	volts
D-C. Grid Voltage	-165	-500	volts
D-C Plate Current	275	300	ma
D-C Grid Current	20	60	ma
Plate Input		900	watts
Plate Dissipation		200	watts
Peak R-F Grid Input Voltage (approx.)	340		volts
Driving Power (approx.)	10		watts
Plate Power Output	400		watts