

POWER AMPLIFIER, OSCILLATOR

Filament	Thoriated Tungsten		
Voltage	7.5		a-c or d-c volts
Current	1.25		amp.
Direct Interelectrode Capacitances (approx.):			
Grid to Plate	7		μf
Grid to Filament	4		μf
Plate to Filament	3		μf
Maximum Overall Length			5-5/8"
Maximum Diameter			2-3/16"
Bulb			S-17
Base	②	③	Medium 4-Pin Bayonet

Pin 1-Filament
Pin 2-Plate

① ④
BOTTOM VIEW

Pin 3-Grid
Pin 4-Filament

A-F POWER AMPLIFIER - Class A

D-C Plate Voltage	425 max.	volts
Plate Dissipation	12 max.	watts

Typical Operation and Characteristics:

Filament Voltage	7.5	7.5	7.5	a-c	volts
D-C Plate Voltage	250	350	425		volts
D-C Grid Voltage*	-23.5	-32	-40		volts
Peak Grid Swing	18.5	27	35		volts
D-C Plate Current	10	16	18		ma.
Plate Resistance	6000	5150	5000		ohms
Amplification Factor	8	8	8		
Mutual Conductance	1330	1550	1600		μmhos
Load Resistance	13000	11000	10200		ohms
U.P.O. (5% second harmonic)	0.4	0.9	1.6		watts

A-F POWER AMPLIFIER - Class B

D-C Plate Voltage	425 max.	volts
Max.-Sig.D-C Plate Cur. (per tube)**	60 max.	ma.
Max.-Sig.Plate Input (per tube)**	25 max.	watts
Plate Dissipation**	12 max.	watts

Typical Operation (2 tubes):

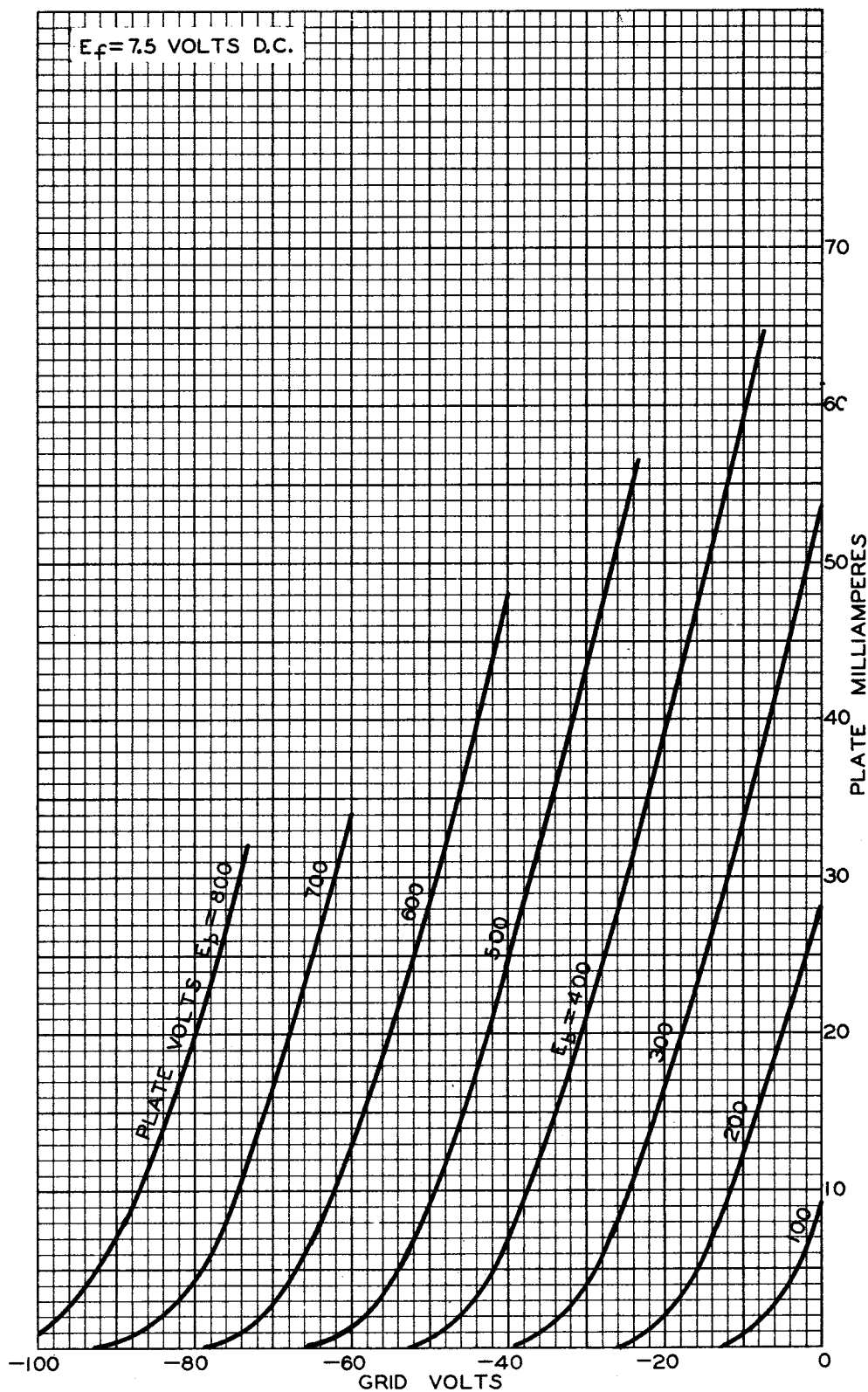
Filament Voltage	7.5	7.5	7.5	a-c	volts
D-C Plate Voltage	250	350	425		volts
D-C Grid Voltage*	-28	-40	-50	approx.	volts
Peak A-F Grid Volt.	110	120	130	approx.	volts
Zero-Sig.D-C Plate Cur. (per tube)	4	4	4		ma.
Max.-Sig.D-C Plate Cur. (per tube)	55	55	55		ma.
Load Resistance (per tube)	1000	1500	2000		ohms
Effective Load Res. (plate to plate)	4000	6000	8000		ohms
Max.-Sig.Driving Power	2.1	2.3	2.5	approx.	watts
Max.-Sig.Power Output (2 tubes)	13	20	25	approx.	watts

** Averaged over any audio-frequency cycle.

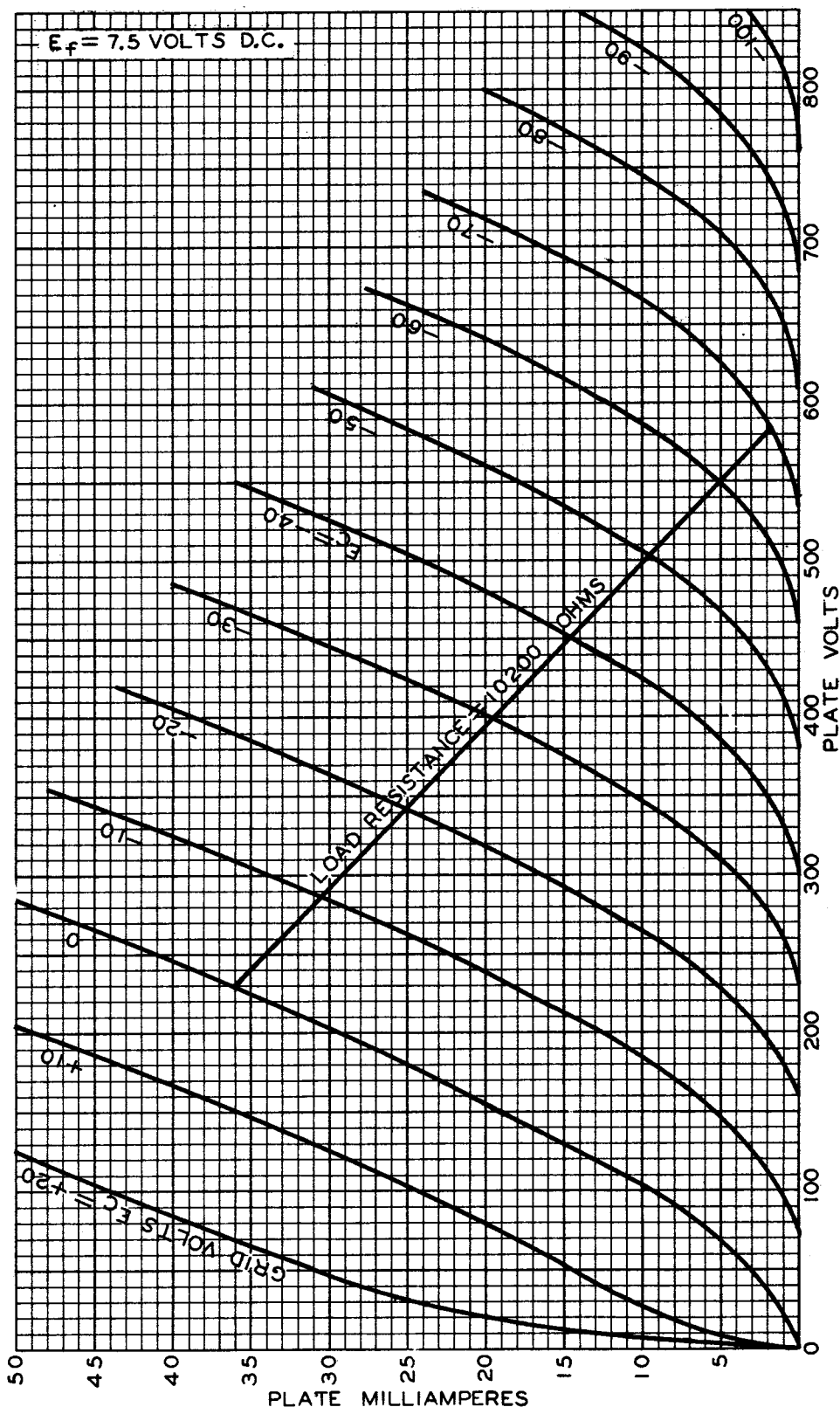
* Grid-voltage values are given with respect to the mid-point of filament operated on a.c. If d.c. is used, each stated value of grid voltage should be decreased by 5.0 volts and should be referred to the negative end of the filament.

RCA-10

AVERAGE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS

