

35T

HIGH-MU TRIODE
MODULATOR
OSCILLATOR
AMPLIFIER

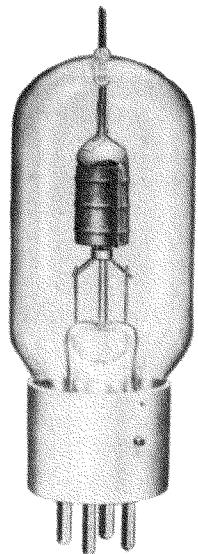
Eitel-McCULLOUGH, INC.
SAN BRUNO, CALIFORNIA

GENERAL CHARACTERISTICS**ELECTRICAL**

Filament:	Thoriated tungsten		
Voltage	- - - - -	5.0	volts
Current	- - - - -	4.0	amperes
Amplification Factor (Average)	- - - - -	39	
Direct Interelectrode Capacitances (Average)			
Grid-Plate	- - - - -	1.8	$\mu\mu f$
Grid-Filament	- - - - -	4.1	$\mu\mu f$
Plate-Filament	- - - - -	0.3	$\mu\mu f$
Transconductance ($I_b = 100$ ma., $E_b = 2000$, $e_g = -30$)		2850	μmhos
Frequency for Maximum Ratings	- - - - -	100	mc.

MECHANICAL

Base	- - - - -	(Medium 4-pin bayonet, ceramic)	RMA type M8-078
Basing	- - - - -		RMA type 3G
Maximum Overall Dimensions:			
Length	- - - - -	5.5	inches
Diameter	- - - - -	1.81	inches
Net weight	- - - - -	2.5	ounces
Shipping weight (Average)	- - - - -	1.25	pounds

**AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR****Class B**

	TYPICAL OPERATION—2 TUBES			MAX. RATING
D-C Plate Voltage	- - - - -	1000	1500	2000
Max.-Signal D-C Plate Current, per tube*	- - -	•	•	•
Plate Dissipation, per tube*	- - - - -	•	•	•
D-C Grid Voltage (approx.)	- - - - -	-8	-25	-40
Peak A-F Grid Input Voltage	- - - - -	240	250	255
Zero-Signal D-C Plate Current	- - - - -	67	45	34
Max.-Signal D-C Plate Current	- - - - -	240	200	167
Max.-Signal Driving Power (approx.)	- - - - -	7	5	4
Effective Load, Plate-to-Plate	- - - - -	7900	16200	27500
Max.-Signal Plate Power Output	- - - - -	140	200	235

*Averaged over any sinusoidal audio frequency cycle.

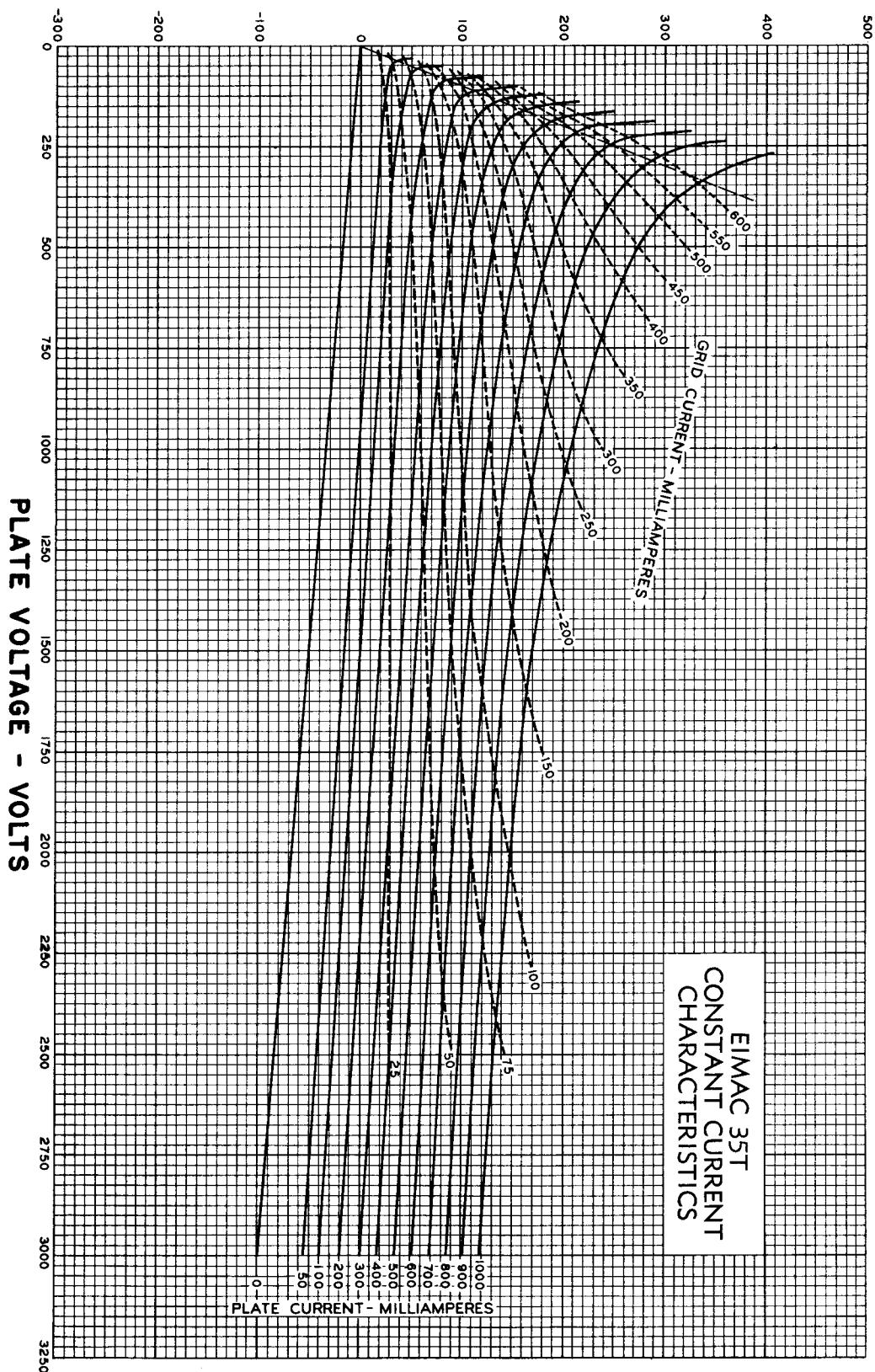
RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR**Class-C *Telegraphy**

(Key down conditions without modulation)

	TYPICAL OPERATION—1 TUBE			MAX. RATING
D-C Plate Voltage	- - - - -	1000	1500	2000
D-C Plate Current	- - - - -	125	125	150
D-C Grid Current	- - - - -	40	40	50
D-C Grid Voltage	- - - - -	-60	-120	-135
Plate Power Output	- - - - -	87	141	200
Plate Input	- - - - -	125	188	250
Plate Dissipation	- - - - -	38	47	50
Peak R. F. Grid Input Voltage, (approx.)	- -	165	250	285
Driving Power, (approx.)	- - - - -	7	9	13

*The above figures show actual measured tube performance, and do not allow for variations in circuit losses.

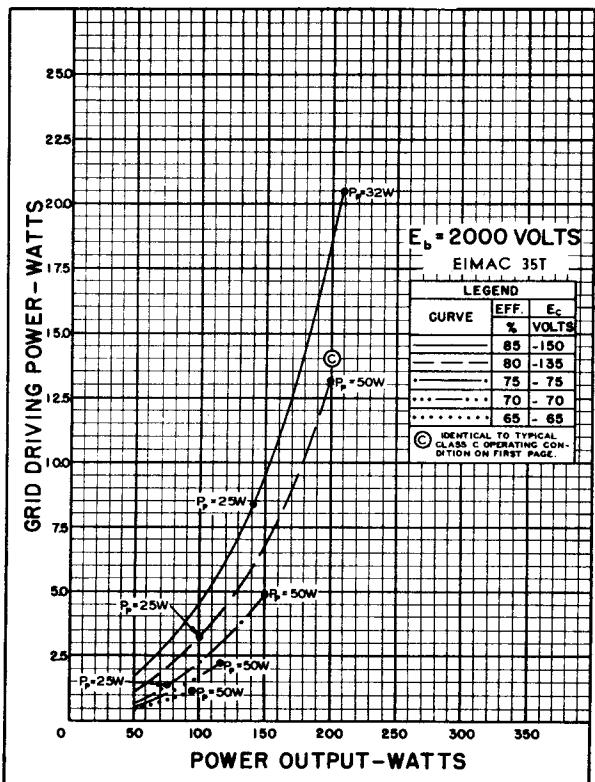
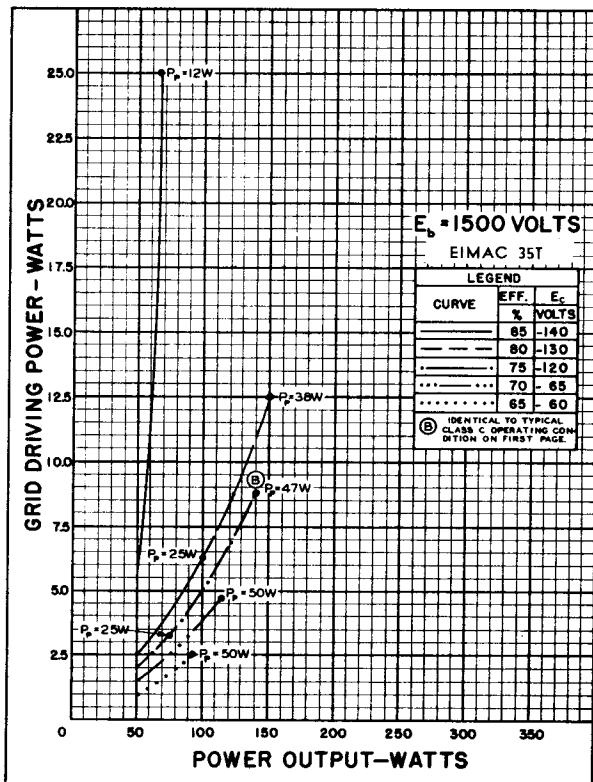
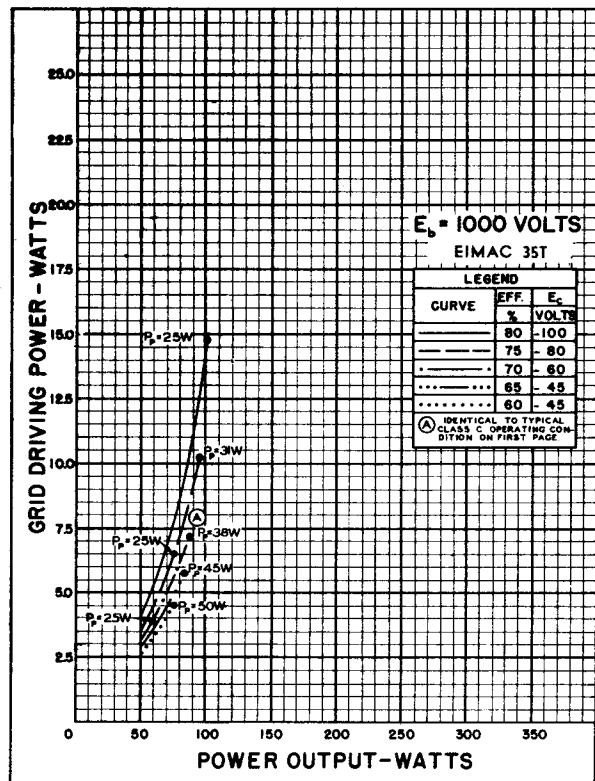
GRID VOLTAGE - VOLTS



DRIVING POWER vs. POWER OUTPUT

The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 1000, 1500 and 2000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by P_p .

Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 1000, 1500, and 2000 volts respectively.



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