

EITEL-McCULLOUGH, INC.

SAN BRUNO, CALIFORNIA

3 C 2 4

MEDIUM-MU TRIODE

MODULATOR

OSCILLATOR

AMPLIFIER

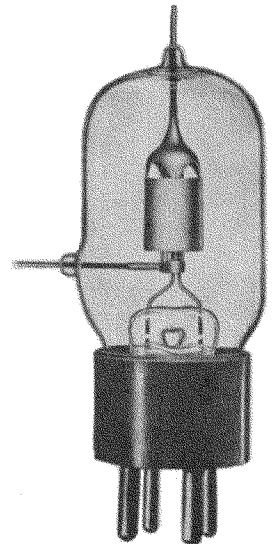
GENERAL CHARACTERISTICS

ELECTRICAL

Filament: Thoriated tungsten	
Voltage - - - - -	6.3 volts
Current - - - - -	3.0 amperes
Amplification Factor (Average) - - - - -	23
Direct Interelectrode Capacitances (Average)	
Grid-Plate - - - - -	1.5 $\mu\mu\text{f}$
Grid-Filament - - - - -	1.7 $\mu\mu\text{f}$
Plate-Filament - - - - -	0.3 $\mu\mu\text{f}$
Transconductance ($I_b=25$ ma., $E_b=1000$, $e_c=-20$)	2500 μmhos

MECHANICAL

Base - - - - -	(Small 4-pin bayonet) RMA type M8-071
Basing - - - - -	RMA type 2D
Maximum Overall Dimensions:	
Length - - - - -	4.38 inches
Diameter - - - - -	1.44 inches
Net weight - - - - -	1.00 ounce
Shipping weight (Average) - - - - -	1.25 pounds



AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR

Class B

	TYPICAL OPERATION—2 TUBES				MAX. RATING	
D-C Plate Voltage - - - - -	750	1000	1500	2000	2000	volts
Max.-Signal D-C Plate Current, per tube* - -	•	•	•	•	75	ma.
Plate Dissipation, per tube* - - - - -	•	•	•	•	25	watts
D-C Grid Voltage (approx.) - - - - -	-20	-30	-60	-85		volts
Peak A-F Grid Input Voltage - - - - -	230	230	250	290		volts
Zero-Signal D-C Plate Current - - - - -	43	32	21	16		ma.
Max.-Signal D-C Plate Current - - - - -	133	120	94	80		ma.
Max.-Signal Driving Power (approx.) - - - -	2.0	1.7	1.2	1.1		watts
Effective Load, Plate-to-Plate - - - - -	9200	15800	33700	55500		ohms
Max.-Signal Plate Power Output - - - - -	50	70	90	110		watts

*Averaged over any sinusoidal audio frequency cycle.

RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR

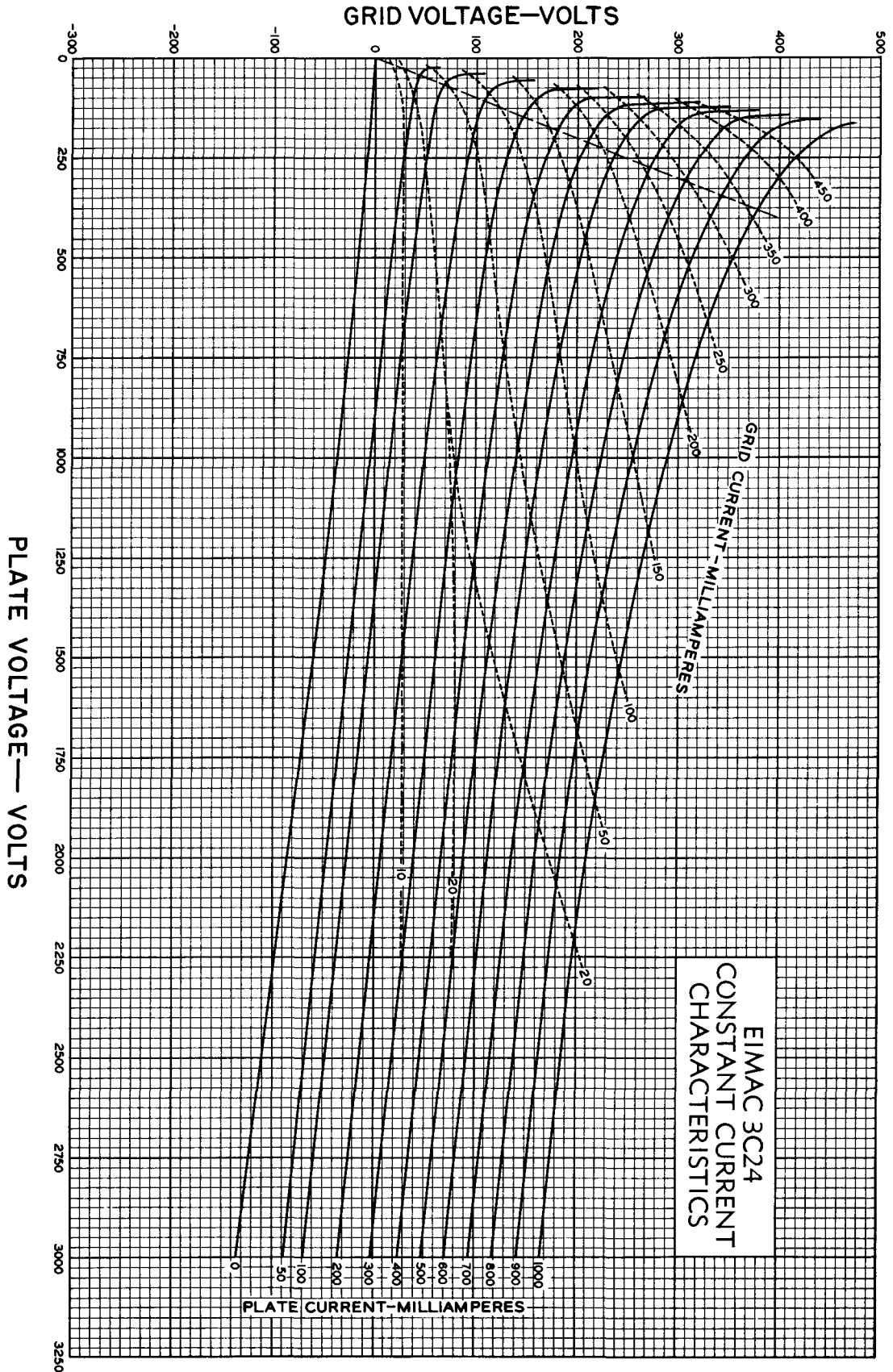
Class-C *Telegraphy

(Key down conditions without modulation)

	TYPICAL OPERATION—1 TUBE			MAX. RATING	
D-C Plate Voltage - - - - -	1000	1500	2000	2000	volts
D-C Plate Current - - - - -	72	67	63	75	ma.
D-C Grid Current - - - - -	15	15	17	25	ma.
D-C Grid Voltage - - - - -	-80	-110	-170		volts
Plate Power Output - - - - -	47	75	100		watts
Plate Input - - - - -	72	100	125		watts
Plate Dissipation - - - - -	25	25	25	25	watts
Peak R. F. Grid Input Voltage, (approx.) - -	200	225	295		volts
Driving Power, (approx.) - - - - -	2.6	3.1	4.5		watts

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

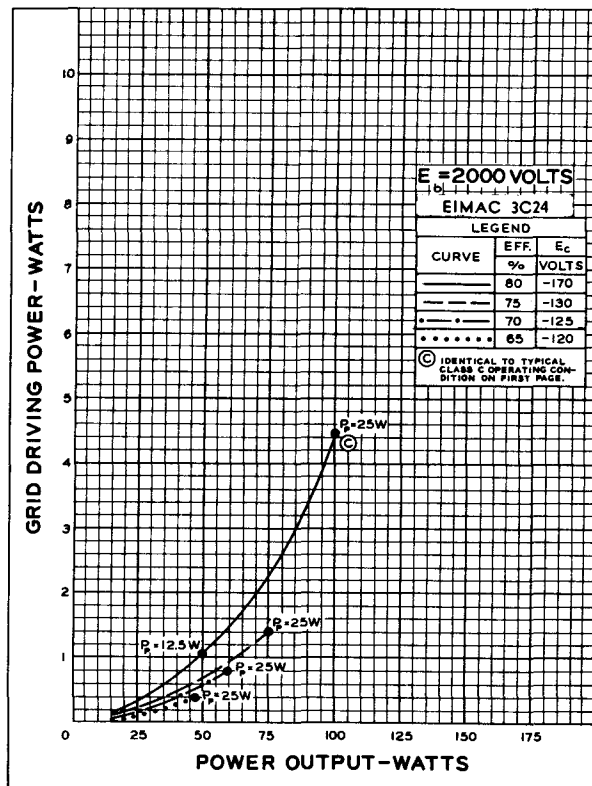
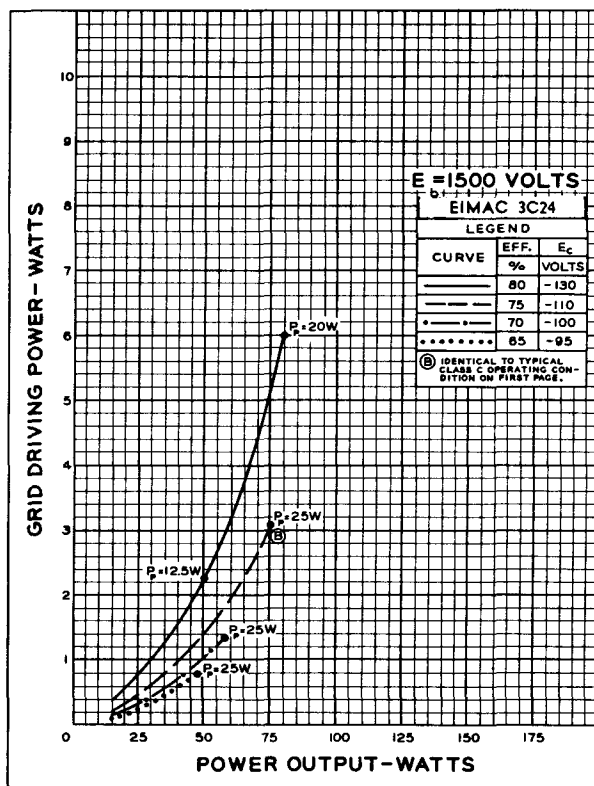
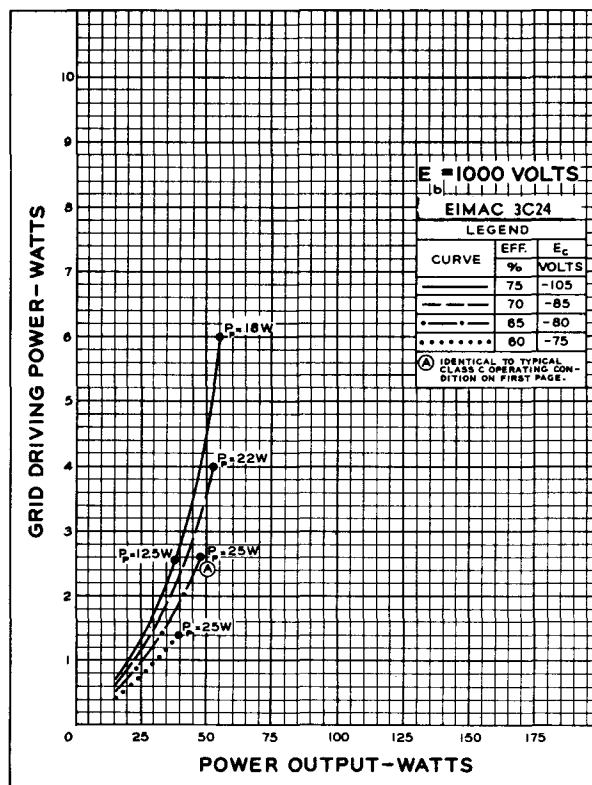
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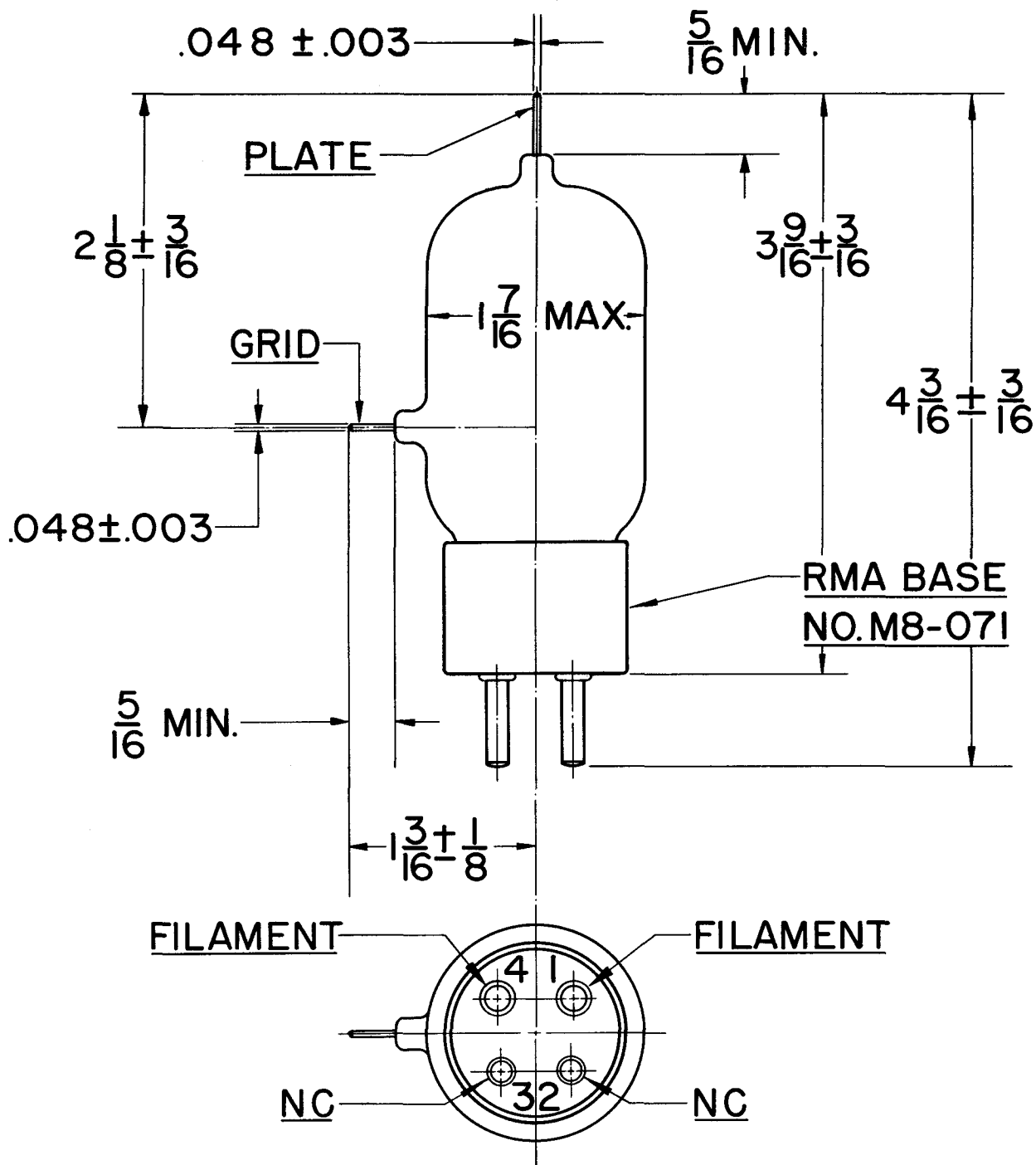


DRIVING POWER vs. POWER OUTPUT

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.





2D

