

5867/AX-9901

Audio-Frequency Power Amplifier and Modulator—Class B

Radio-Frequency Power Amplifier—Class B

modulation factor of 1.0
Maximum Ratings, Absolute Values

Plate-Modulated Radio-Frequency Power Amplifier—Class C—Telephony

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

D.C. Plate Voltage	CCS 2000	CCS 2500 volts
Typical Operation		

Peak R-F Grid Voltage	370	440	volts
D.C. Grid Voltage	225	300	volts

D.C. Plate Current	250	250 ma
D.C. Grid Current, approximate	70	70 ma

Driving Power, approximate	23.5	28 watts
Power Output, approximate	375	482 watts

¹Averaged over any audio-frequency cycle of sine-wave form.
²At crest of audio-frequency cycle with modulation factor

of 1.0.

Key-down conditions per tube without amplitude modulation³

Typical Operation, Grounded-Grid Circuit

Same Values as for Grounded-Filament Circuit with the following exceptions:

Percentage of Maximum Rated Plate Voltage and Plate Input

Frequency	100	125	140	megacycles
Class	100	75	67	percent

Modulation essentially negative may be used if the positive

peak of the envelope does not exceed 115 per cent of the carrier conditions.

¹Includes power transferred from driver stage.

ELECTRICAL DATA

	4.7	5.3	5.9
	$\mu\mu f$	$\mu\mu f$	$\mu\mu f$
Grid-Plate	.	.	.
Grid-Filament	.	.	.
Plate-Filament	.	.	.

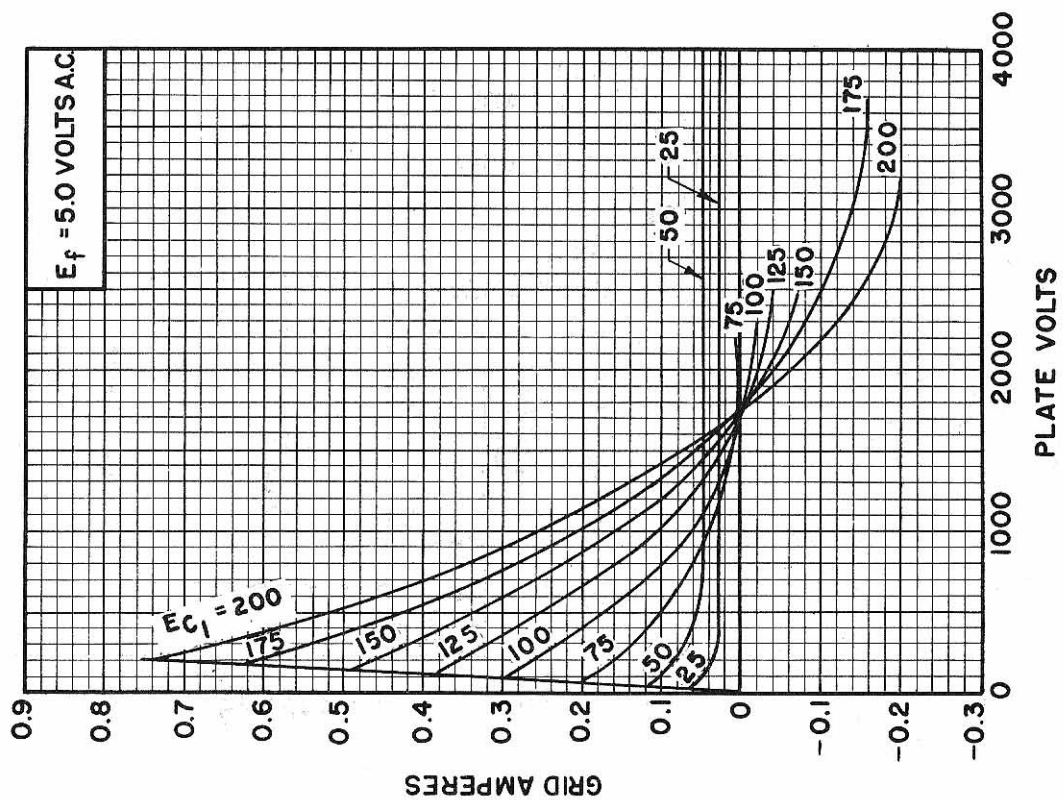
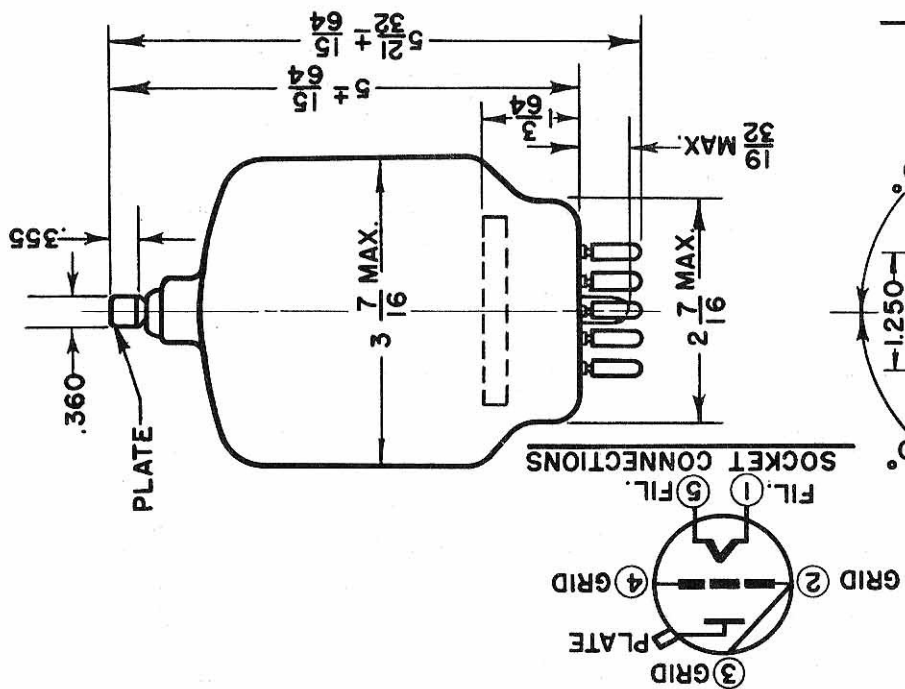
Mounting Position	.	.	.	.	.	.	vertical, base up or down
Maximum Glass Temperature ^a	.	.	.	.	.	.	
at bottom seals	.	.	.	.	.	.	180° C
at plate seal	.	.	.	.	.	.	220° C

Net Weight, approximate		6 ounces
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¹Represents maximum usable cathode current (plate current plus grid current) for any condition of operation.

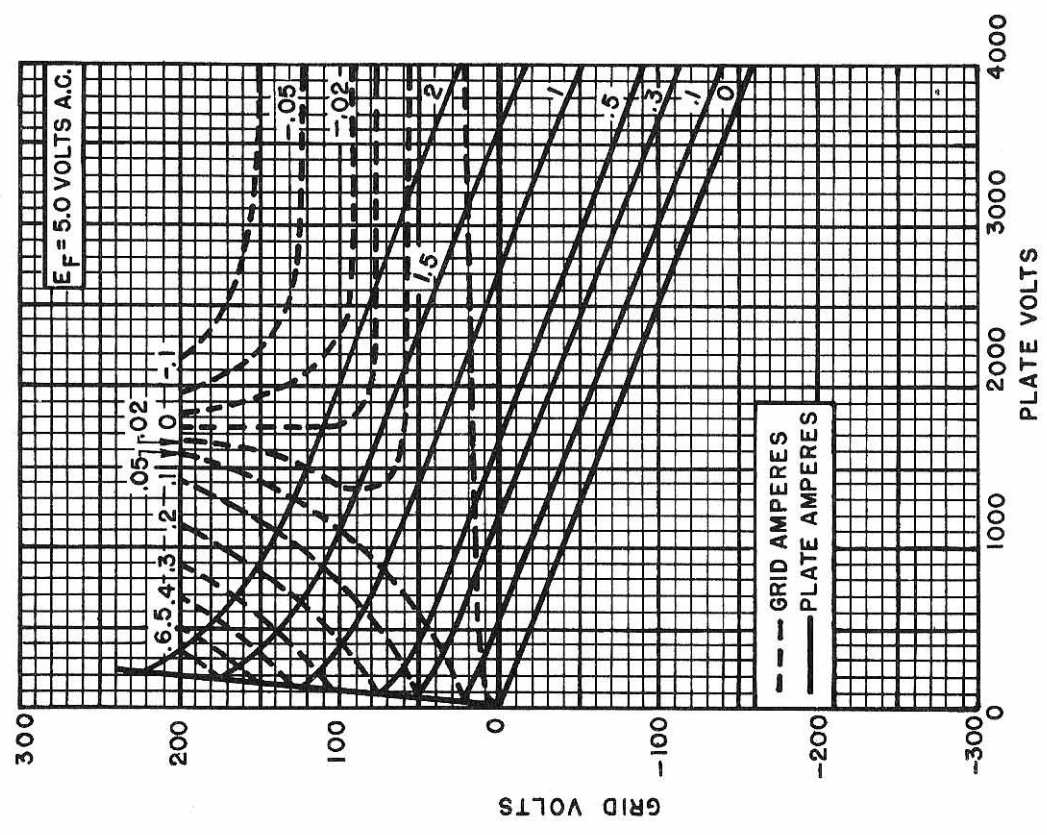
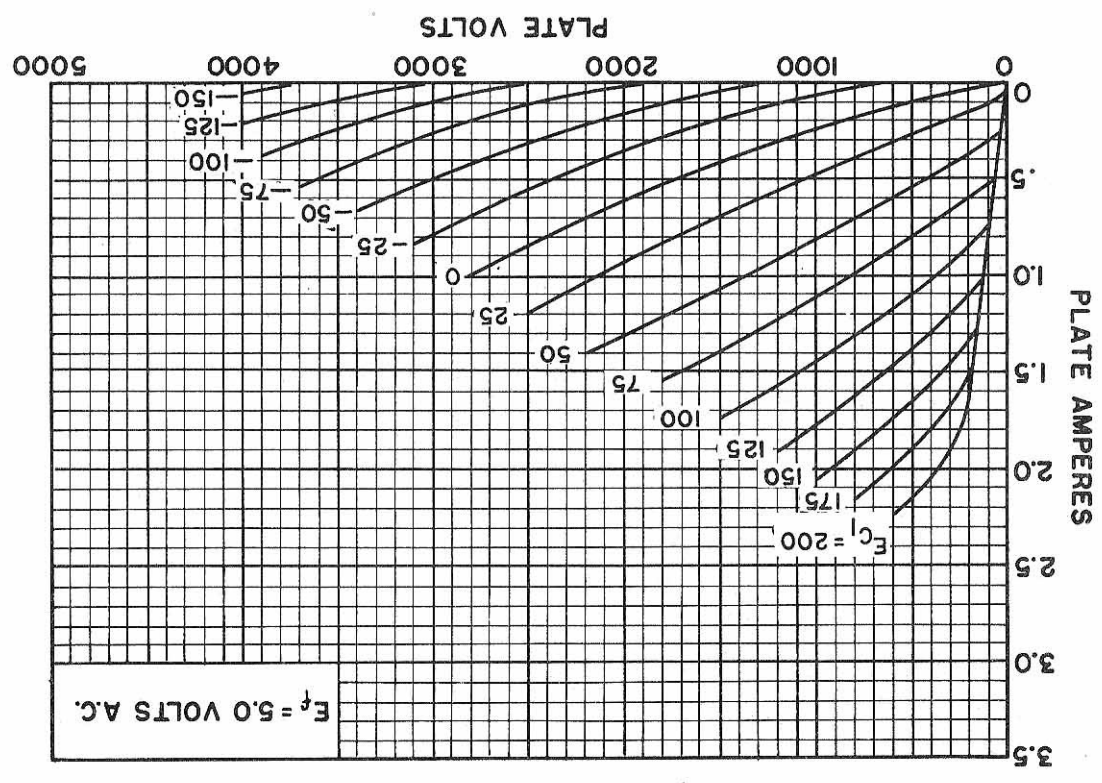
[†]In cases where the maximum permissible temperatures are likely to be exceeded, as would normally be the case at frequencies above 30 Mc/s with full ratings, a low velocity air flow should be directed on the anode seal and the bottom of the envelope.

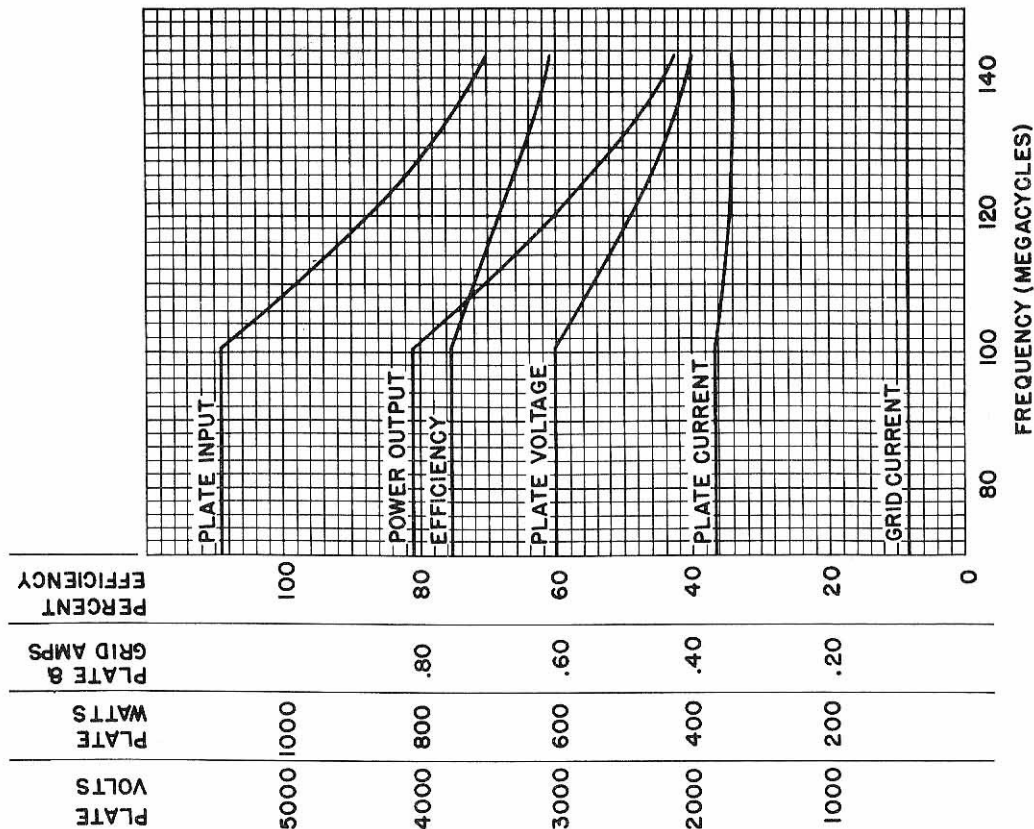
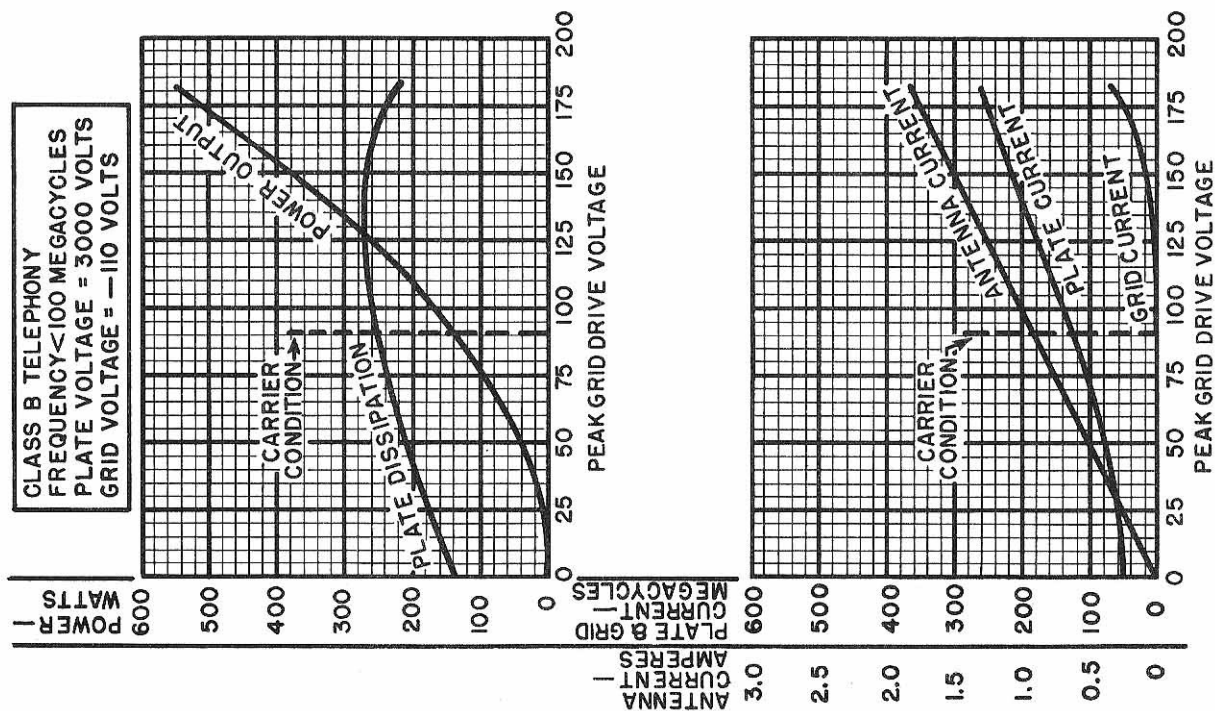
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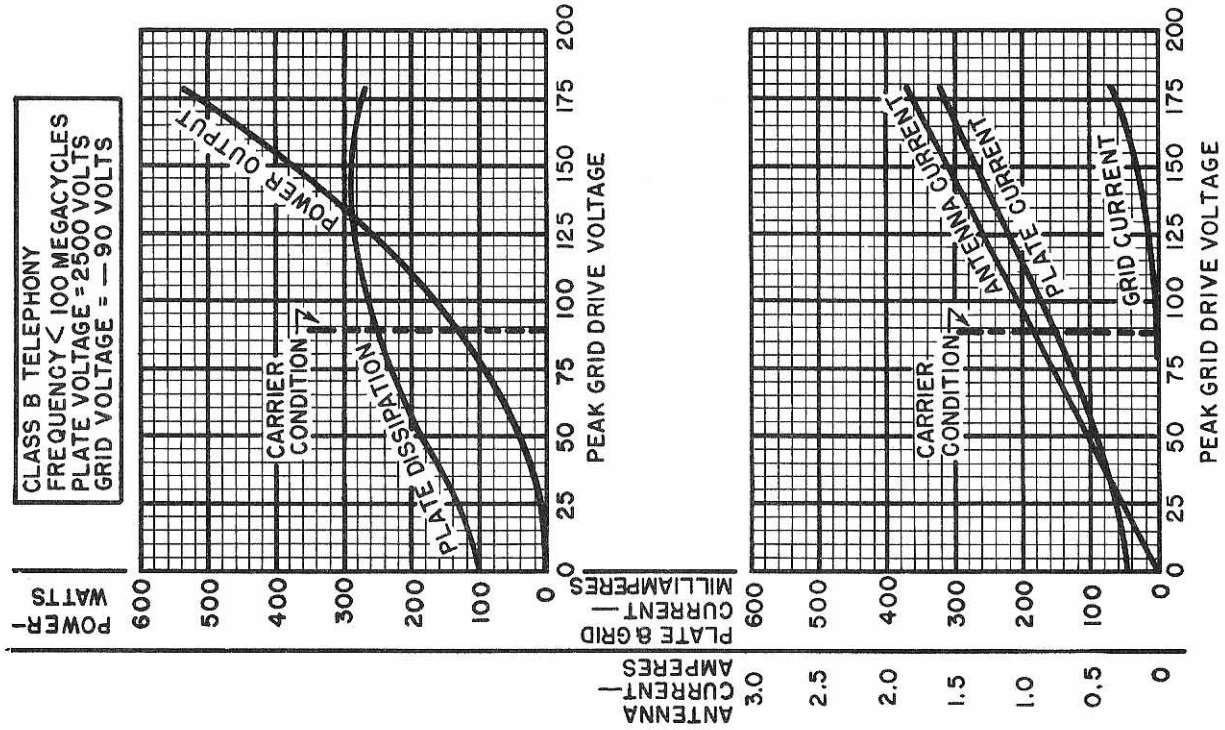
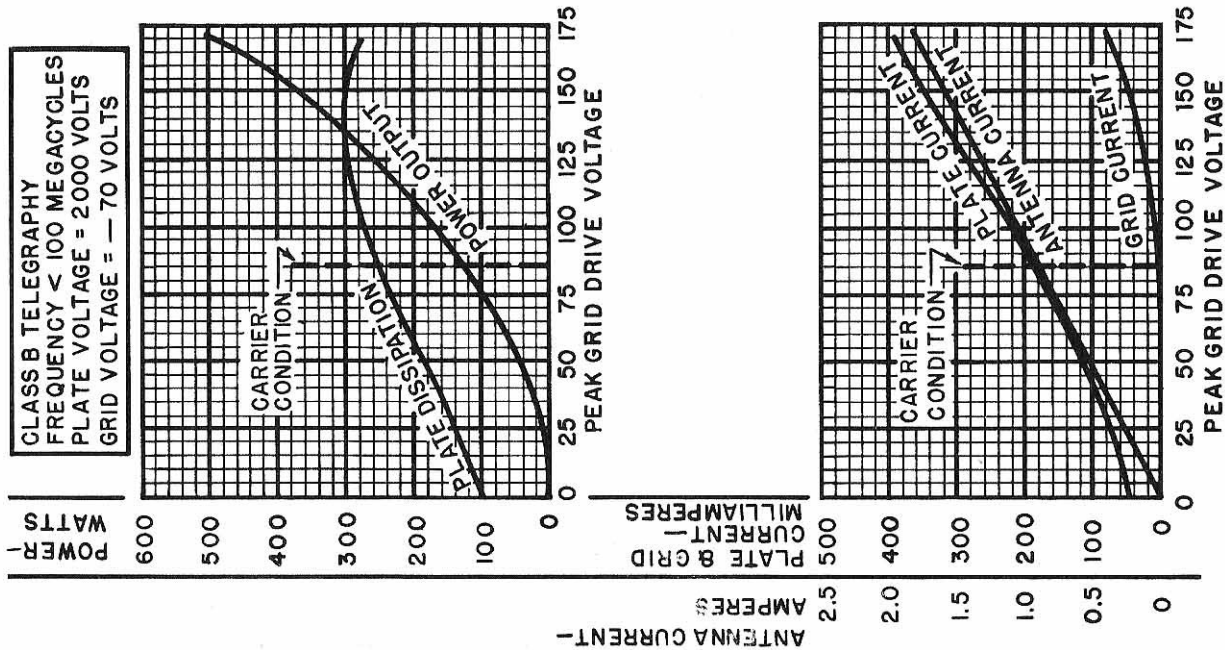


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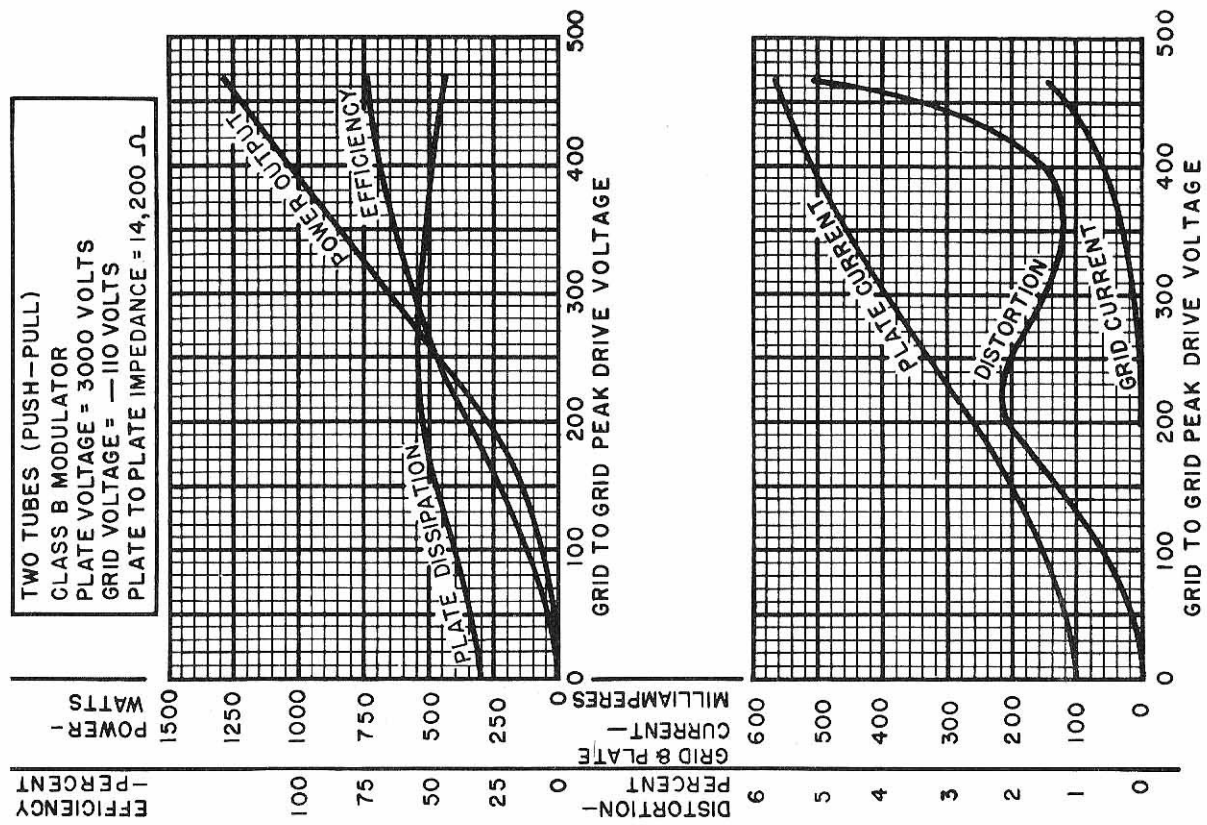
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