

CLASS B TWIN AMPLIFIER

Heater	Coated Uni-potential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.6	amp.
Overall Length	4-9/32" to 4-17/32"	
Maximum Diameter	1-9/16"	
Bulb	ST-12!	
Cap	(3) (4)	Small Metal
Base	Small 6-Pin	
Pin 1-Heater	(2) (5)	Pin 5-Plate (Triode T_1)
Pin 2-Plate (Triode T_2)	(1) (6)	Pin 6-Heater
Pin 3-Grid (Triode T_2)		Cap -Grid (Triode T_1)
Pin 4-Cathode		

BOTTOM VIEW

For convenience, one triode unit is identified as T_1 , the other as T_2 .

CLASS "B" POWER AMPLIFIER

Plate Voltage	250 max.	volts
Peak Plate Current (per plate)	90 max.	ma.
Average Plate Dissipation	11.5 max.	watts

Typical Operation:

Heater *	6.3	6.3	volts
Plate	180	250	volts
Grid	0	0	volts
Zero-Sig. Plate Current (per plate)	3.8	5.3	ma.
Load Res. (per plate)	1750	3500	ohms
Effective Load Res. (plate to plate)	7000	14000	ohms
Power Output ^o	5.5	8.0	approx. watts

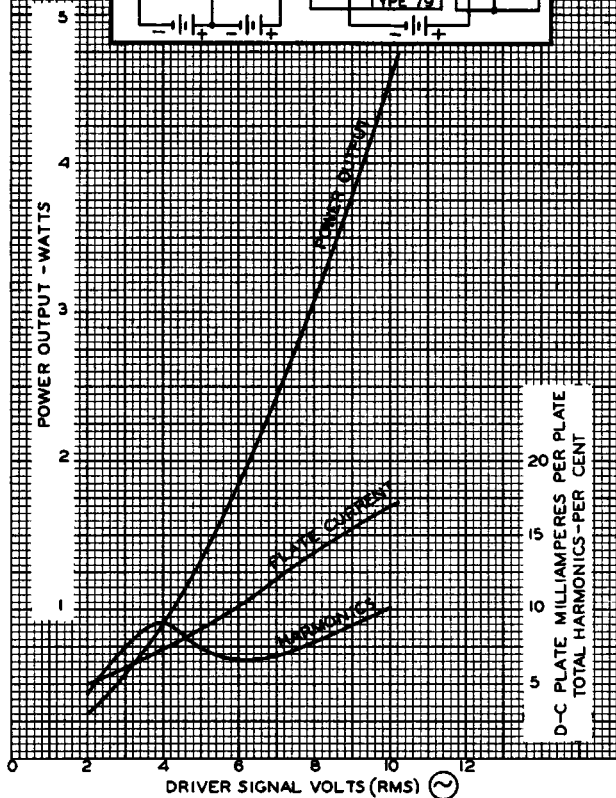
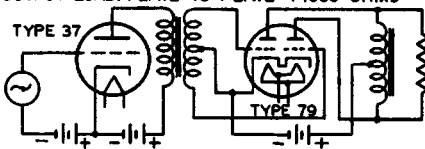
* In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

^o With average power input of 380 milliwatts applied between grids.

OPERATION CHARACTERISTICS

 $E_f = 6.3$ VOLTS

INPUT-CLASS A-ONE TYPE 37
 PLATE VOLTS=185.5 GRID VOLTS=-14.5
 OUTPUT-CLASS B-ONE TYPE 79
 PLATE VOLTS=200 GRID VOLTS=0
 INPUT TRANSFORMER-VOLTAGE RATIO $\frac{\text{PRIM.}}{\sqrt{2} \text{ SEC.}} = 2.6$
 -PEAK POWER EFF.=70 %
 OUTPUT LOAD, PLATE TO PLATE=14000 OHMS



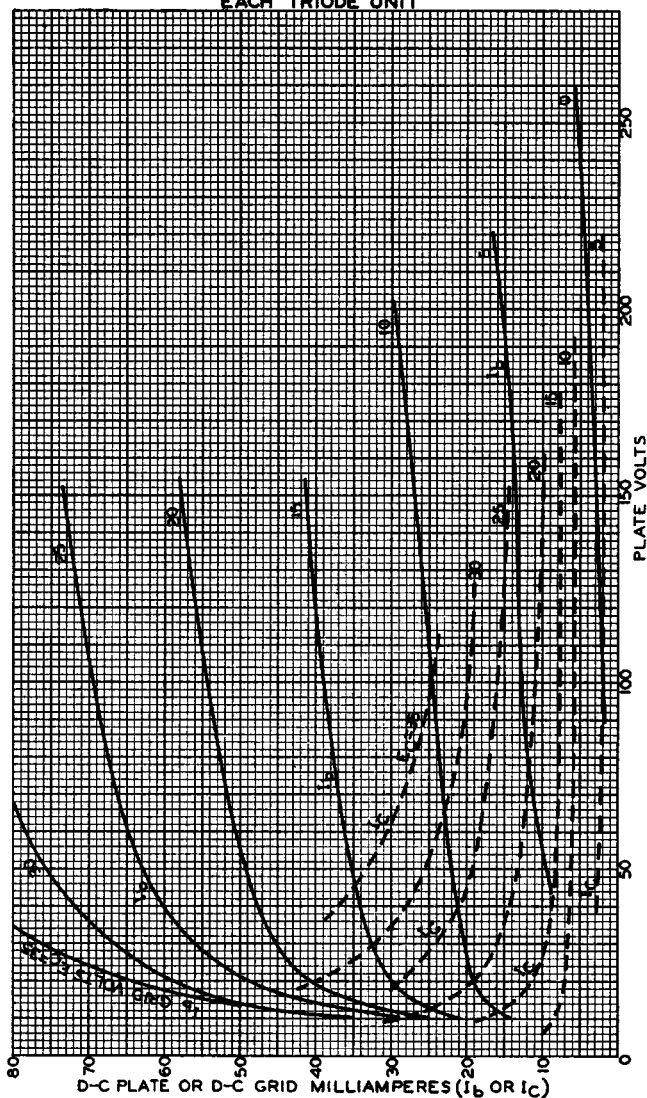


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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT



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AVERAGE PLATE CHARACTERISTICS CLASS A OPERATION - EACH TRIODE UNIT

