

RCA-79

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)			Pin 6-Heater
Pin 3-Grid (Triode T ₂)	(1) (6)		Cap -Grid (Triode T ₁)
Pin 4-Cathode			

BOTTOM VIEW

For convenience, one triode unit is identified as T₁, the other as T₂.

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	<u>approx. watts</u>

* 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.

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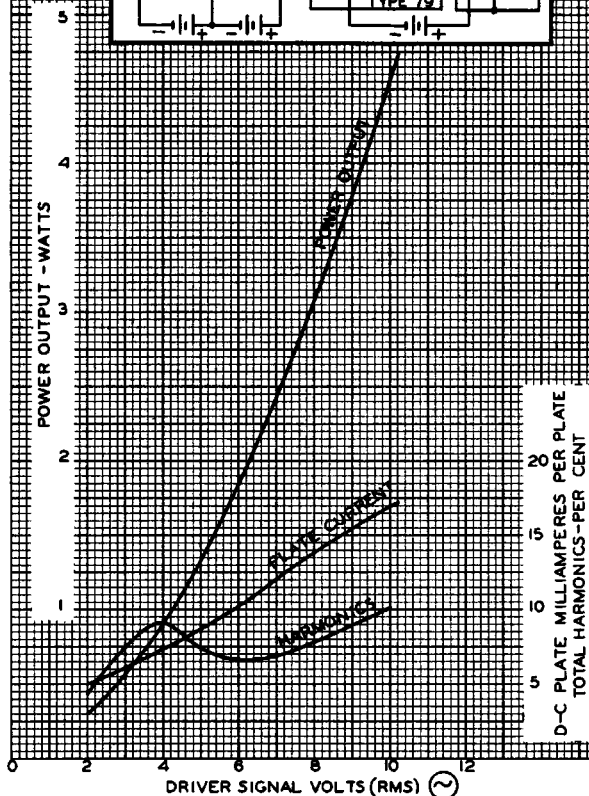
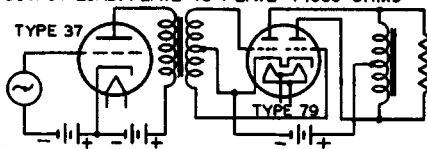
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OPERATION CHARACTERISTICS

$E_f = 6.3$ VOLTS

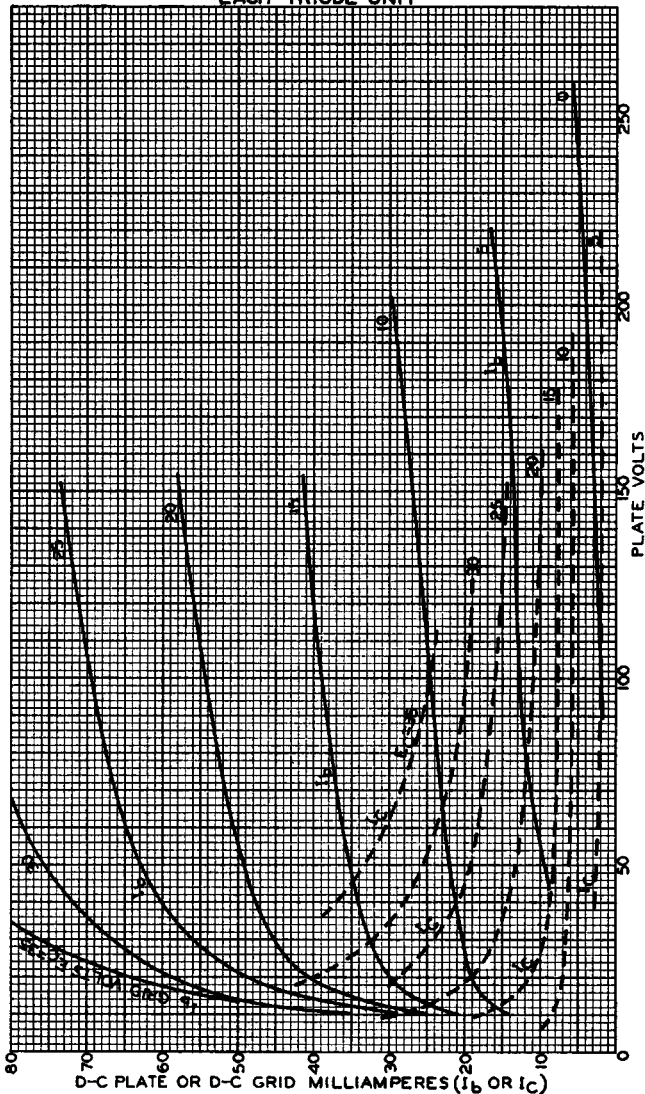
INPUT-CLASS A-ONE TYPE 37
 PLATE VOLTS=185.5 GRID VOLTS=-14.5
 OUTPUT-CLASS B-ONE TYPE 79
 PLATE VOLTS=200 GRID VOLTS=0
 INPUT TRANSFORMER-VOLTAGE RATIO $\frac{\text{PRIM.}}{\sqrt{2} \text{ SEC.}} = 2.6$
 - PEAK POWER EFF. = 70%
 OUTPUT LOAD, PLATE TO PLATE=14000 OHMS



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**AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT**



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AVERAGE PLATE CHARACTERISTICS
CLASS A OPERATION - EACH TRIODE UNIT

