

## 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                                 | ② ⑤                          | Small 6-Pin                          |
| Pin 1-Heater                         | ① ⑥                          | Pin 5-Plate (Triode T <sub>1</sub> ) |
| Pin 2-Plate (Triode T <sub>2</sub> ) |                              | Pin 6-Heater                         |
| Pin 3-Grid (Triode T <sub>2</sub> )  |                              | Cap -Grid (Triode T <sub>1</sub> )   |
| Pin 4-Cathode                        |                              |                                      |

BOTTOM VIEW

BOTTOM VIEW

*For convenience, one triode unit is identified as T<sub>1</sub>, the other as T<sub>2</sub>.*

### CLASS "B", POWER AMPLIFIER

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

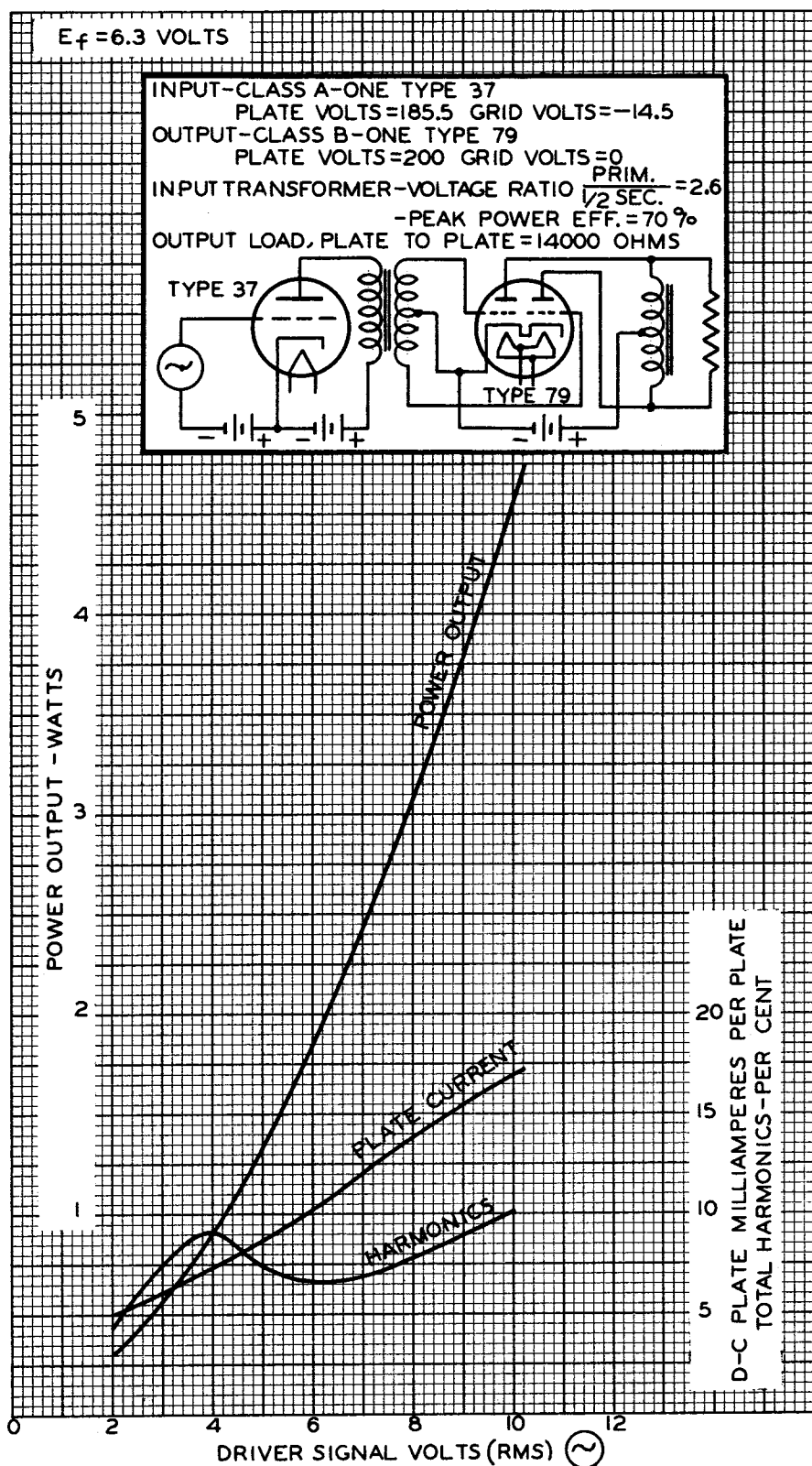
#### Typical Operation:

|                                      |      |       |                      |
|--------------------------------------|------|-------|----------------------|
| 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 <sup>o</sup>            | 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.

<sup>o</sup> With average power input of 380 milliwatts applied between grids.

## OPERATION CHARACTERISTICS





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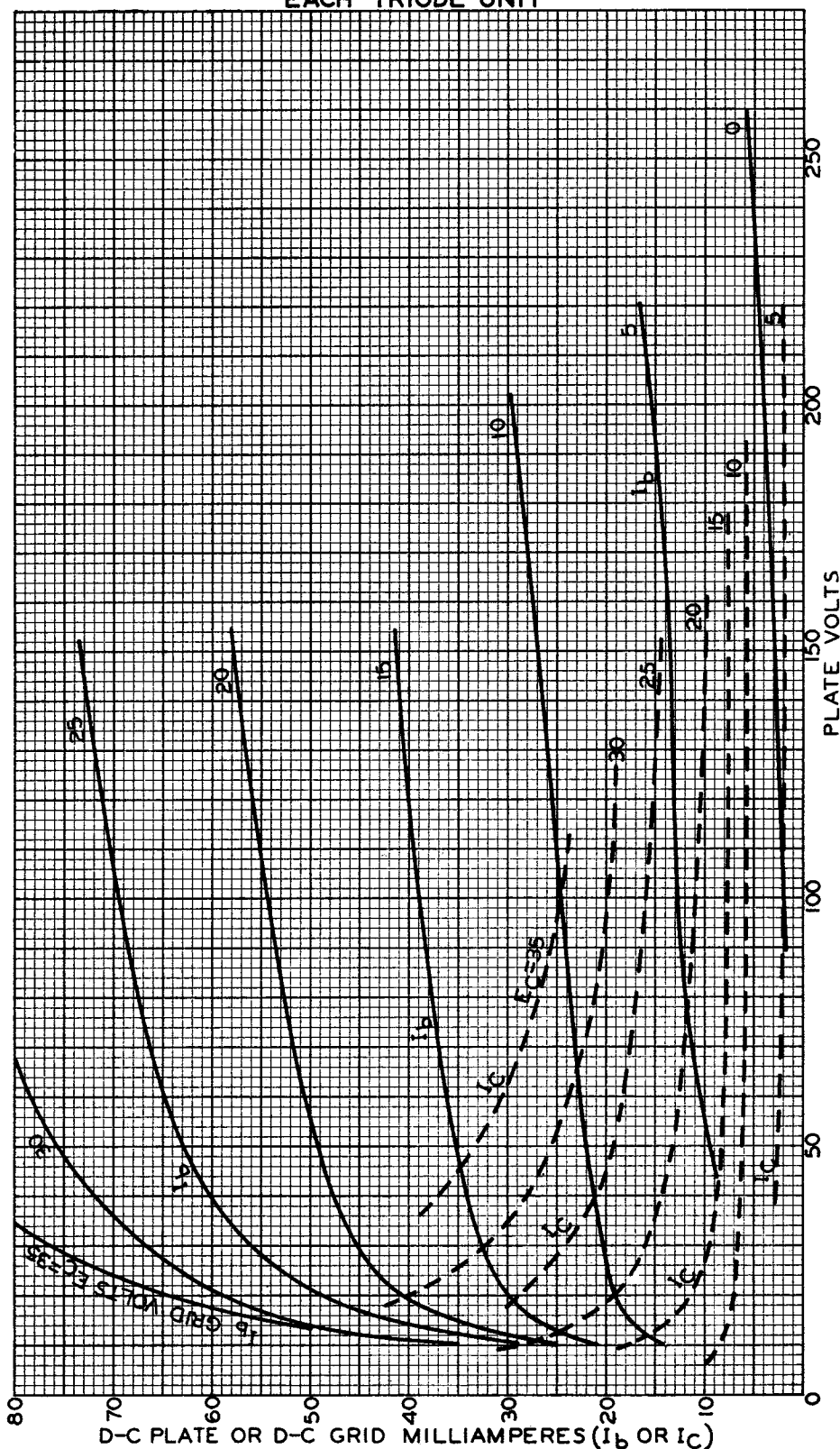
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AVERAGE PLATE CHARACTERISTICS  
EACH TRIODE UNIT



DEC. 6, 1932

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

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# AVERAGE PLATE CHARACTERISTICS CLASS A OPERATION - EACH TRIODE UNIT

