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**CLASS B TWIN AMPLIFIER**

Heater ■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.6	amp.
Maximum Overall Length	3-5/16"	
Maximum Seated Height	2-3/4"	
Maximum Diameter	1-5/16"	
Bulb	T-9	
Base	Intermediate Shell Octal 8-Pin	
Pin 1-No Connection		Pin 5-Grid T1
Pin 2-Heater		Pin 6-Plate T1
Pin 3-Plate T2		Pin 7-Heater
Pin 4-Grid T2		Pin 8-Cathode
RCA Socket		Stock No. 9924
Mounting Position	BOTTOM VIEW	Any

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

Maximum Ratings Are Design-Center Values

**CLASS B TWIN AMPLIFIER**

	With Sustained Signal (See Note 1)	With Variable Signal Only (See Note 2)
Plate Voltage	300 max.	400 max. volts
Peak Plate Current (per plate)	90 max.	90 max. ma.
Average Plate Dissipation (per plate)	3 max.	4.5 max. watts

**Typical Operation:**

Unless otherwise specified, values are for the two units

Plate-Supply Impedance	0	1000*	0	ohms
Effective Grid Circuit Impedance (per unit)	0	516**	0	ohms
Plate Voltage	300	300	400	volts
D-C Grid Voltage	0	0	0	volts
Peak A-F Grid-to-Grid Volt.	70	108	76	volts
Zero-Sig. D-C Plate Current	6.6	6.6	10	ma.
Max.-Sig. D-C Plate Current	54	54	63	ma.
Peak Grid Current (per unit)	38	39	41	ma.
Effective Load Resistance Plate-to-Plate	12000	12000	14000	ohms
Total Harmonic Distortion	4	5	-	%
Max. Sig. Power Output	10.4	10.4	17	watts

NOTE 1: For applications where the tube has to handle a sustained signal as for example, key-down operation.

NOTE 2: For the handling of signals where the tube will not operate under sustained signal conditions as for example, broadcast reception.

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

\* Practical design value.

\*\* See next page.

June 1, 1942

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA

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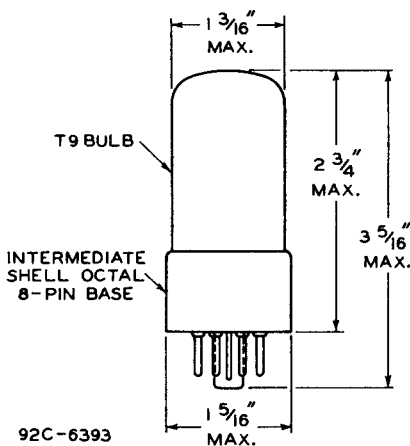
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## CLASS B TWIN AMPLIFIER

(continued from preceding page)

\*\* At 400 cycles for class B stage in which the effective resistance per grid circuit is 500 ohms, and the leakage reactance of the coupling transformer is 50 millihenrys. The driver stage should be capable of supplying the grids of the class B stage with the specified values at low distortion.

- Includes peak voltage drop through the grid-circuit impedance.



June 1, 1942

RCA RADIOTRON DIVISION  
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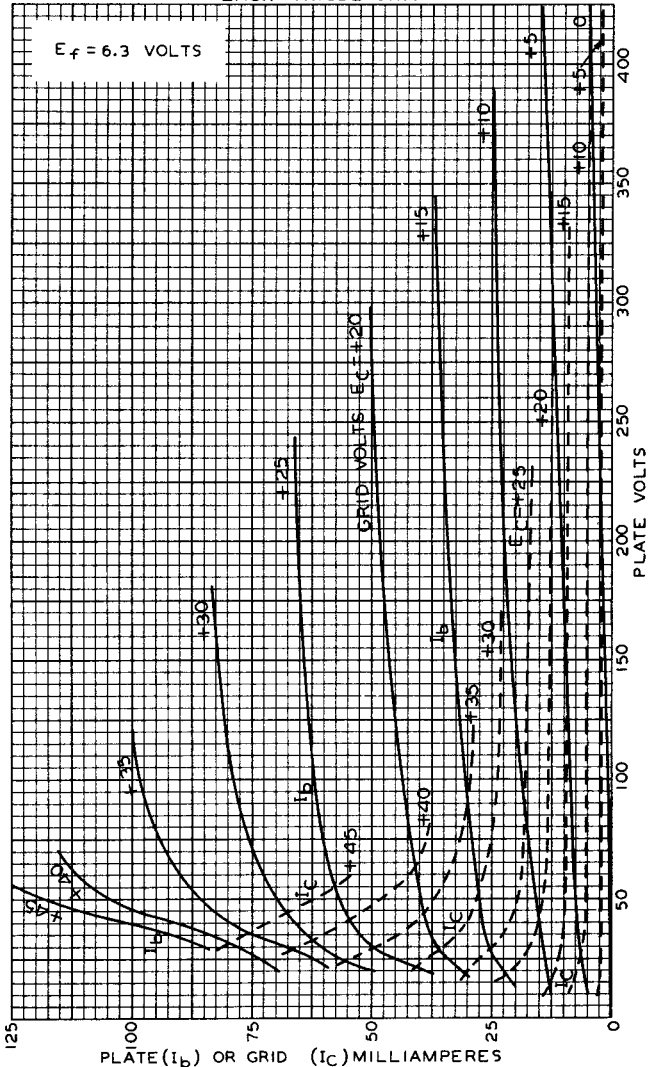
TENTATIVE DATA



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### AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



FEB. 26, 1942

RCA RADIODRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

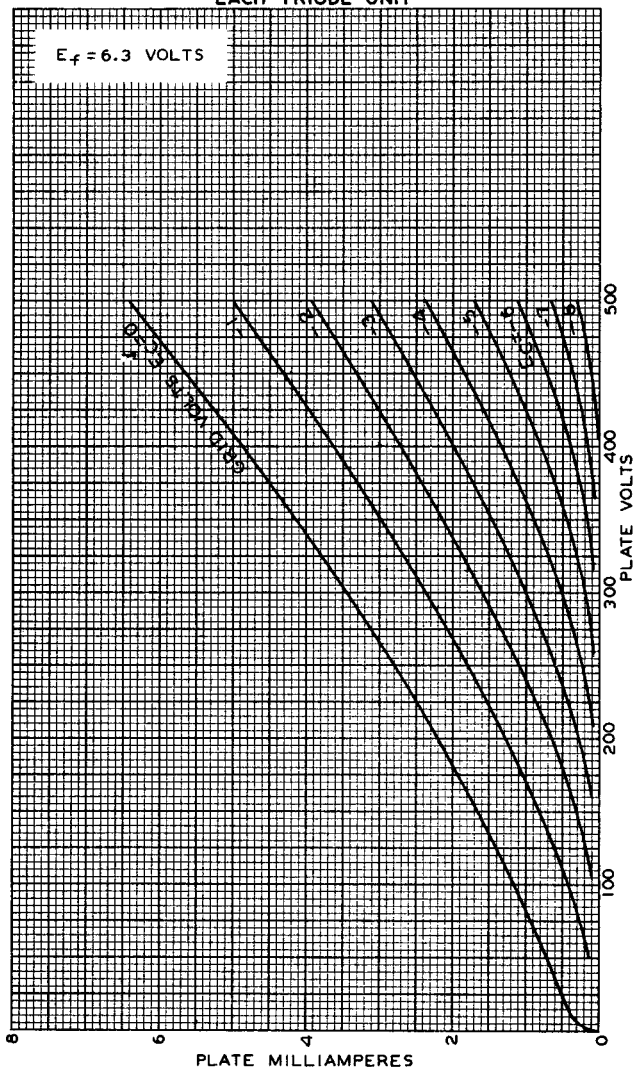
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# AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



FEB. 27, 1942

 RCA RADOTRON DIVISION  
 RCA MANUFACTURING COMPANY, INC.

92C-6369



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# HIGH-MU TWIN POWER TRIODE

## GENERAL DATA

### Electrical:

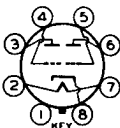
Heater, for Unipotential Cathode:

Voltage . . . . .	6.3	ac or dc volts
Current . . . . .	0.6	amp

### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length . . . . .	3-5/16"
Maximum Seated Length . . . . .	2-3/4"
Maximum Diameter . . . . .	1-5/16"
Bulb . . . . .	T-9
Base . . . . .	Intermediate-Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW . . . . .	G-8B

- Pin 1 - No Connection
- Pin 2 - Heater
- Pin 3 - Plate of Unit No. 2
- Pin 4 - Grid of Unit No. 2



- Pin 5 - Grid of Unit No. 1
- Pin 6 - Plate of Unit No. 1
- Pin 7 - Heater
- Pin 8 - Cathode

## AF POWER AMPLIFIER - Class B

### Maximum Ratings, Design-Center Values:

DC PLATE VOLTAGE . . . . .	300 max.	volts
PEAK PLATE CURRENT (per plate) . . . . .	90 max.	ma.
PLATE DISSIPATION (per plate) . . . . .	3 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode . . . . .	90 max.	volts
Heater positive with respect to cathode . . . . .	90 max.	volts

### Typical Operation:

Values are for 2 units unless otherwise specified

DC Plate Voltage . . . . .	300	300	volts
DC Grid Voltage . . . . .	0	0	volts
Peak AF Grid-to-Grid Voltage . . . . .	70	108 <sup>●</sup>	volts
Zero-Signal DC Plate Current . . . . .	6.6	6.6	ma.
Max.-Signal DC Plate Current . . . . .	54	54	ma.
Peak Grid Current (per unit) . . . . .	38	39	ma.
Plate-Supply Impedance . . . . .	0	1000*	ohms
Effective Load Resistance (plate-to-plate) . . . . .	12000	12000	ohms
Effective Grid-Circuit Impedance (per unit) . . . . .	0	516**	ohms
Total Harmonic Distortion . . . . .	4	5	%
Max.-Signal Power Output . . . . .	10.4	10.4	watts

●, \*, \*\*: See next page.

← Indicates a change.

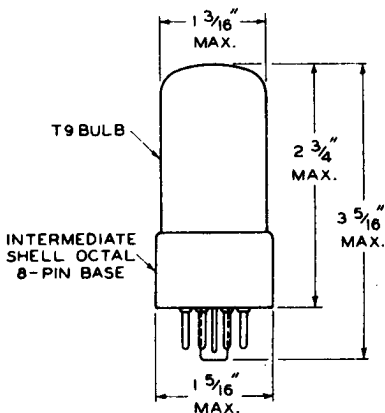
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## HIGH-MU TWIN POWER TRIODE

- Includes peak voltage drop through the grid-circuit impedance.
- Practical design value.
- \*\* At 400 cycles for class B stage in which the effective resistance per grid circuit is 500 ohms, and the leakage reactance of the coupling transformer is 50 millihenrys. The driver stage should be capable of supplying the grids of the class B stage with the specified values at low distortion.



92C-6393