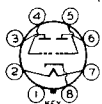




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CLASS B TWIN AMPLIFIER

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

BOTTOM VIEW

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.

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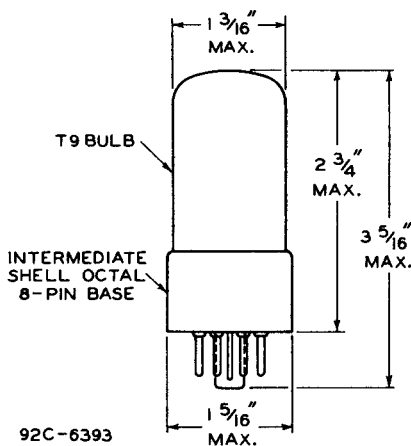
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CLASS B TWIN AMPLIFIER

(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.



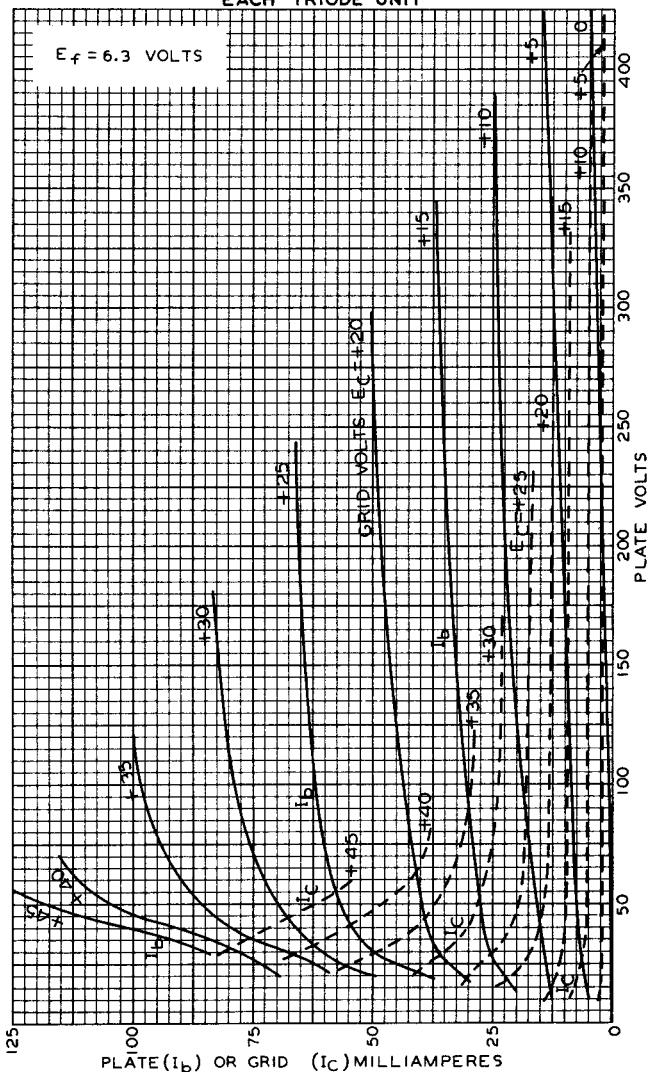
June 1, 1942

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA



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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

FEB. 26, 1942

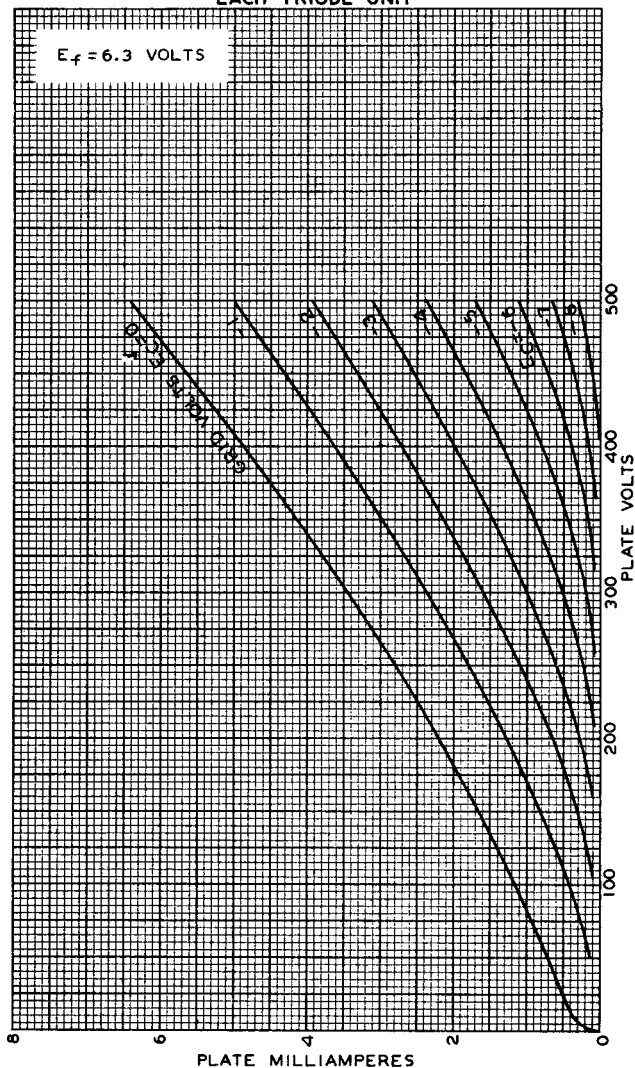
RCA RADIORON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-635B

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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

FEB. 27, 1942

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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HIGH-MU TWIN POWER TRIODE

GENERAL DATA

Electrical:

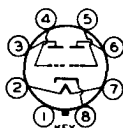
Heater, for Unipotential Cathode:

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[•] 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.

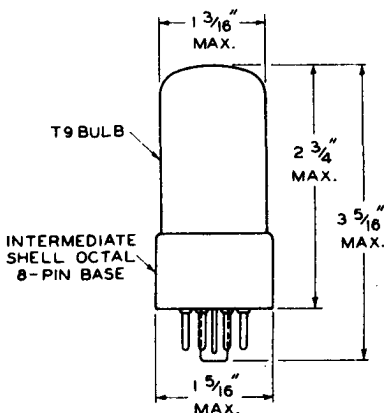
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HIGH-MU TWIN POWER TRIODE

- 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