



6C4

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MEDIUM-MU TRIODE

For use in FM and other HF circuits

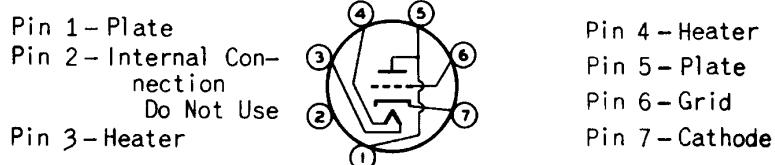
GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:			
Voltage	6.3	ac or dc volts	
Current	0.15	amp	
Direct Interelectrode Capacitances: ^o			
Grid to plate	1.6	μf	
Grid to cathode and heater	1.8	μf	
Plate to cathode and heater	1.3	μf	

Mechanical:

Mounting Position	Any	
Maximum Overall Length	2-1/8"	
Maximum Seated Length	1-7/8"	←
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" \pm 3/32"	←
Maximum Diameter	3/4"	
Bulb	T-5-1/2	
Base	Small-Button Miniature 7-Pin (JETEC No.E7-1)	←
Basing Designation for BOTTOM VIEW	6BG	←

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300	max. volts	
PLATE DISSIPATION	3.5	max. watts	
PEAK HEATER-CATHODE VOLTAGE:			←
Heater negative with respect to cathode	200	max. volts	
Heater positive with respect to cathode	200	max. volts	

Characteristics:

Plate Voltage	100	250	volts
Grid Voltage	0	-8.5	volts
Amplification Factor	19.5	17	
Plate Resistance (Approx.)	6250	7700	ohms
Transconductance	3100	2200	μmhos
Plate Current	11.8	10.5	ma

Maximum Circuit Values:

Grid-Circuit Resistance:		
For fixed-bias operation	0.25	max. megohm
For cathode-bias operation	1.0	max. megohm

^o With no external shield.

■ See next page.

← indicates a change.

NOV. 5, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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→ **Typical Operation as Resistance-Coupled Amplifier:**

See *RESISTANCE-COUPLED AMPLIFIER CHART No. 10*
at front of this Section.

RF POWER AMPLIFIER & OSCILLATOR—Class C Telegraphy

Maximum Ratings, Design-Center Values:

DC PLATE VOLTAGE	300	max. volts
DC GRID VOLTAGE	-50	max. volts
DC PLATE CURRENT	25	max. ma
DC GRID CURRENT	8	max. ma
PLATE DISSIPATION	5	max. watts

→ **PEAK HEATER-CATHODE VOLTAGE:**

Heater negative with respect to cathode . . 200 max. volts
Heater positive with respect to cathode . . 200 max. volts

Typical Operation at Frequencies up to 50 Mc:*

DC Plate Voltage	300	volts
DC Grid Voltage	-27	volts
DC Plate Current	25	ma
DC Grid Current (Approx.)	7	ma
Driving Power (Approx.)	0.35	watt
Useful Power Output (Approx.).	5.5	watts

- The dc component must not exceed 100 volts.
- Approximately 2.5 watts can be obtained when the 6C4 is used at 150 Mc as an oscillator with grid resistor of 10000 ohms and maximum rated input.

→ indicates a change.

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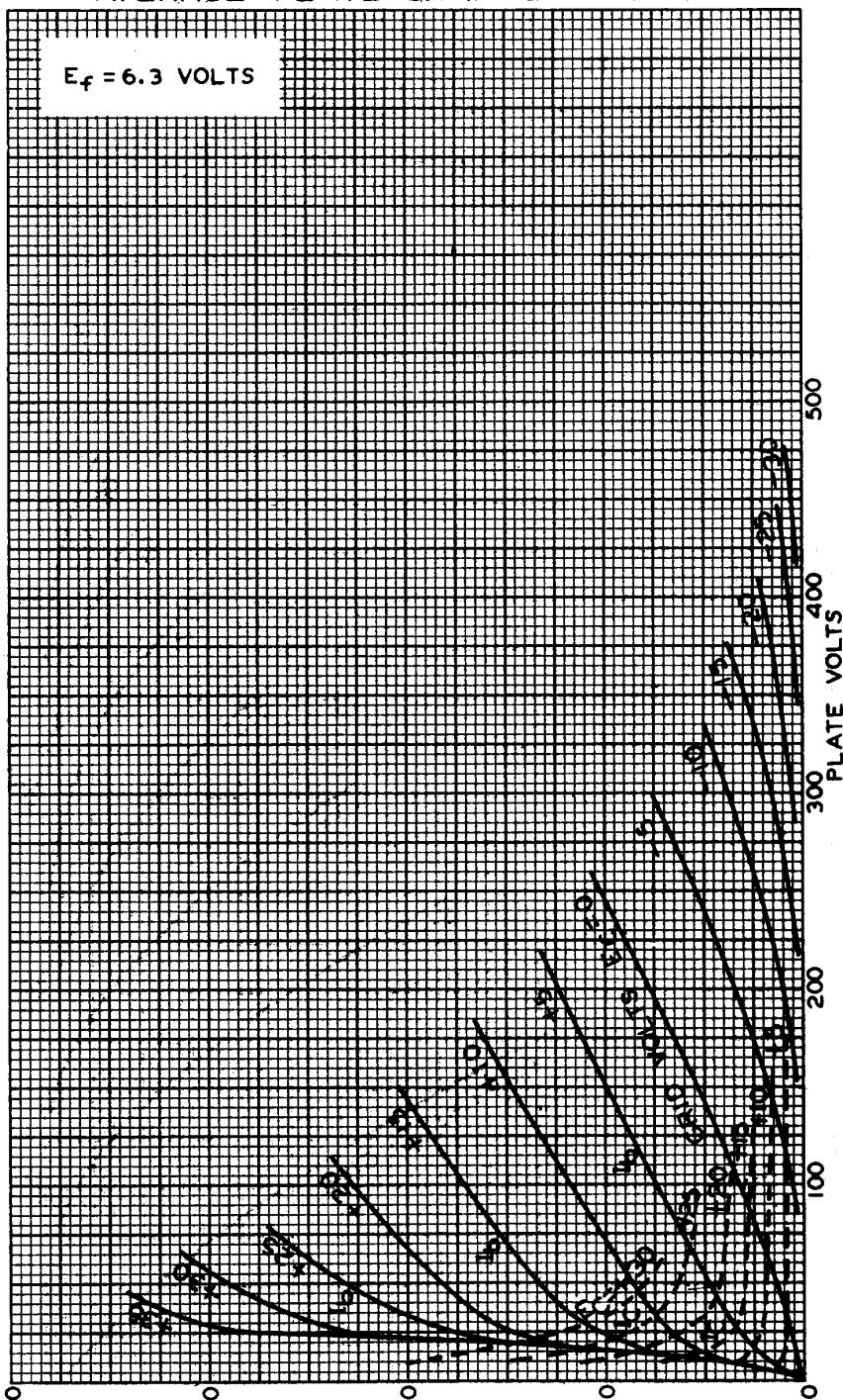
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AVERAGE PLATE CHARACTERISTICS



MARCH 16, 1942

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6378

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AVERAGE PLATE CHARACTERISTICS

