

6BQ6GTB/6CU6

Beam Power Tube

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	1.2	amp

Direct Interelectrode Capacitances (Approx.):^a

Grid No.1 to plate	0.6	$\mu\mu\text{f}$
Grid No.1 to cathode & grid No.3, grid No.2, and heater	15	$\mu\mu\text{f}$
Plate to cathode & grid No.3, grid No.2, and heater	7	$\mu\mu\text{f}$ ←

Characteristics, Class A₁ Amplifier:

Plate Voltage	60	150	250	volts
Grid-No.2 Voltage	150	150	150	volts
Grid-No.1 Voltage	0	-22.5	-22.5	volts
Mu-Factor, Grid No.2 to Grid No.1	-	4.3	-	
Plate Resistance (Approx.)	-	-	14500	ohms
Transconductance	-	-	5900	μmhos
Plate Current	260 ^b	-	57	ma
Grid-No.2 Current	26 ^b	-	2.1	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1	-	-	-43	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	3-7/8"
Seated Length	2-7/8" to 3-5/16"
Maximum Diameter	1-9/32"
Bulb	T9
Cap	Skirted Miniature (JEDEC No.C1-2, C1-3, or C1-33)

Bases (Alternates):

Intermediate-Shell Octal:

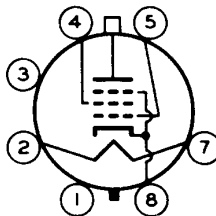
- 7-Pin, Arrangement 1 (JEDEC Group 1, No.B7-7)
- 6-Pin, Arrangement 2 (JEDEC Group 1, No.B6-81)

Short Intermediate-Shell Octal with External Barriers:

- 7-Pin (JEDEC Group 1, No.B7-59)
- 6-Pin, Arrangement 2 (JEDEC Group 1, No.B6-84)
- 5-Pin, Arrangement 3 (JEDEC Group 1, No.B5-187)

Basing Designation for BOTTOM VIEW 6AM

- Pin 1^c - No Connection
- Pin 2 - Heater
- Pin 3^c - No Connection
- Pin 4 - Grid No.2



- Pin 5 - Grid No.1
- Pin 7 - Heater
- Pin 8 - Cathode,
Grid No.3
- Cap - Plate

← Indicates a change.



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HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system^d

DC PLATE-SUPPLY VOLTAGE	600 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE (Absolute maximum) ^e	6000 ^f max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1250 max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.	200 max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL- GRID) VOLTAGE	300 max.	volts
CATHODE CURRENT:		
Peak.	400 max.	ma
→ Average	110 max.	ma
GRID-No.2 INPUT	2.5 max.	watts
PLATE DISSIPATION ^g	11 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode .	200 max.	volts
Heater positive with respect to cathode .	200 ^h max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	220 max.	°C

→ **Maximum Circuit Values:**

Grid-No.1-Circuit Resistance.	0.47 max.	megohm
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^a Without external shield.

^b This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^c On the 6-pin bases, pin 1 as well as pin 6 is omitted. On the 5-pin base, pins 1 and 3 as well as pin 6 are omitted.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^e This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

^f Under no circumstances should this absolute value be exceeded.

^g An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

^h The dc component must not exceed 100 volts.

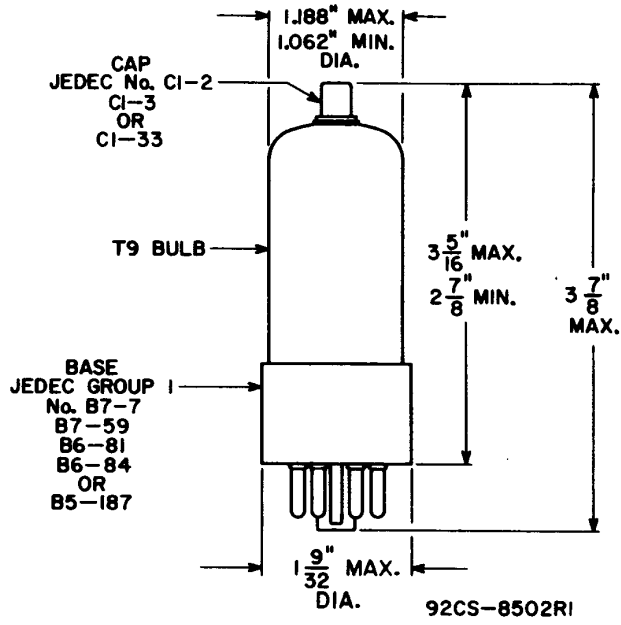
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RADIO CORPORATION OF AMERICA
Electron Tube Division

Harrison, N. J.

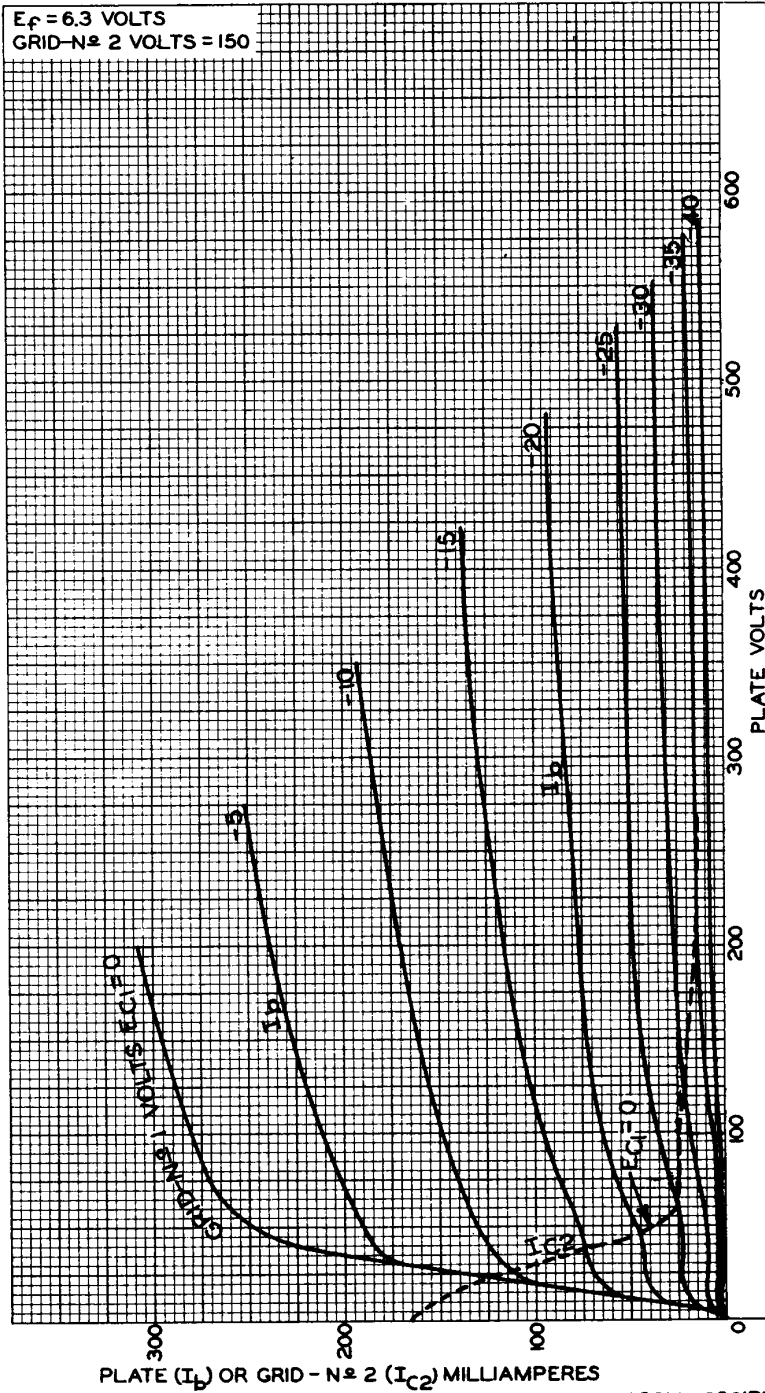


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AVERAGE CHARACTERISTICS



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