

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	μmf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	15	μmf
Plate to cathode & grid No.3, grid No.2, and heater	7	μmf ←

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:

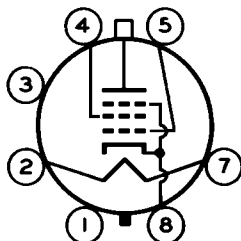
7-Pin (JEDEC Group 1, No.B7-59)

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.

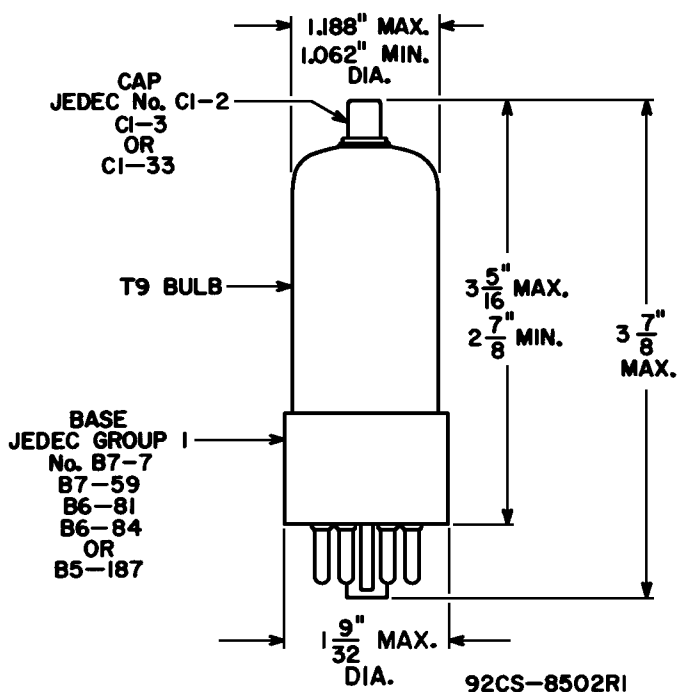
^g An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

^h The dc component must not exceed 100 volts.

→ Indicates a change.

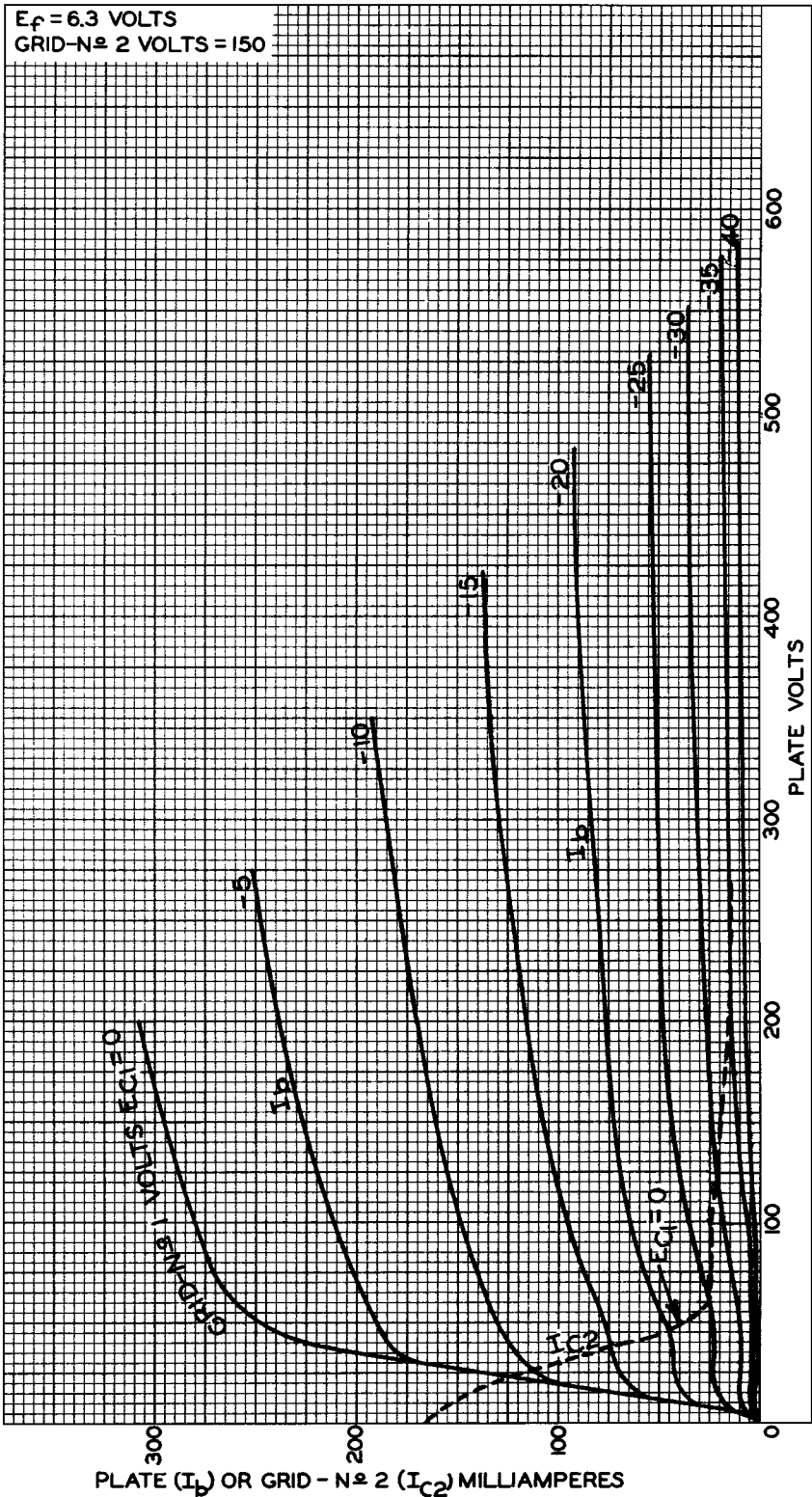


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AVERAGE CHARACTERISTICS



92CM - 850IR1

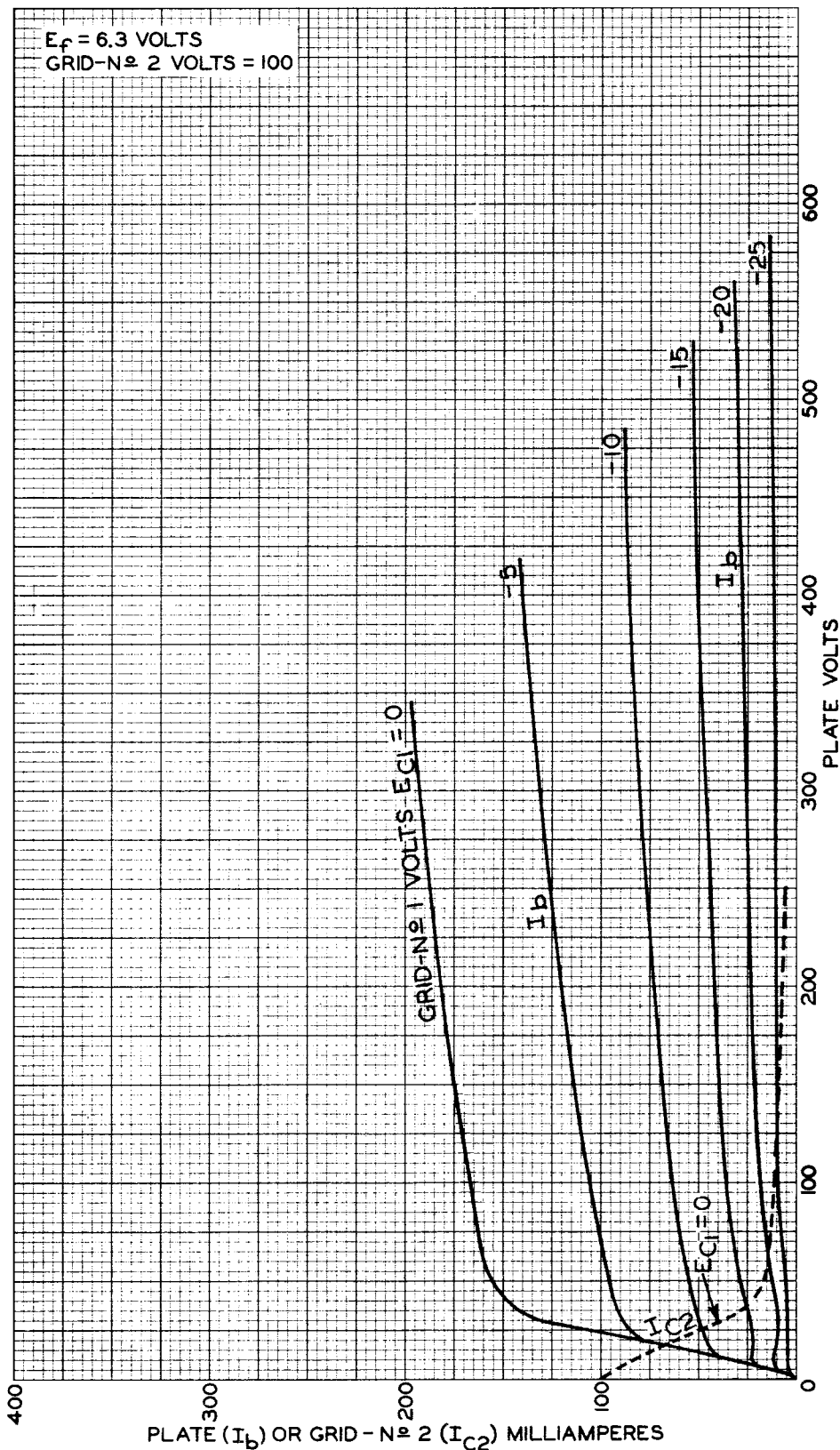




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AVERAGE PLATE CHARACTERISTICS



JAN. 11, 1955

TUBE DIVISION

92CM-8500

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY