

6GW6

Beam Power Tube

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 ± 10% volts
 Current at 6.3 volts 1.2 amp

Mu-Factor, Grid No.2 to Grid No.1

for plate volts = 150, grid-No.2
 volts = 150, grid-No.1 volts =
 -22.5 4.4

Direct Interelectrode Capacitances

(Approx.):^a

Grid No.1 to plate 0.5 μμf
 Grid No.1 to cathode & grid No.3,
 grid No.2, and heater 17 μμf
 Plate to cathode & grid No.3,
 grid No.2, and heater 7 .μμf

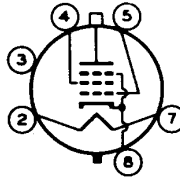
Characteristics, Class A₁ Amplifier:

Plate Voltage 60 250 volts
 Grid-No.2 Voltage 150 150 volts
 Grid-No.1 Voltage 0 -22.5 volts
 Plate Resistance (Approx.) - 15000 ohms
 Transconductance - 7100 μmhos
 Plate Current 390^b 70 ma
 Grid-No.2 Current 32^b 2.1 ma
 Grid-No.1 Voltage (Approx.) for
 plate ma. = 1 - -42 volts

Mechanical:

Operating Position Any
 Maximum Overall Length 4-1/4"
 Seated Length 3-1/2" ± 3/16"
 Diameter 1.438" to 1.562"
 Bulb T12
 Cap Skirted Miniature (JEDEC No.C1-3)
 Base Short Medium-Shell Octal 6-Pin
 with External Barriers, Style B, Arrangement 2
 (JEDEC No.B6-122)
 Basing Designation for BOTTOM VIEW 6AM

Pin 2 - Heater
 Pin 3 - No Connec-
 tion
 Pin 4 - Grid No.2
 Pin 5 - Grid No.1



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



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HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

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

DC PLATE-SUPPLY VOLTAGE	770	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^d	6500	max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1500	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	220	max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE	-55	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE	330	max.	volts
CATHODE CURRENT:			
Peak	550	max.	ma
Average	175	max.	ma
GRID-No.2 INPUT	3.5	max.	watts
PLATE DISSIPATION ^e	17.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 ^f	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface)			
	240	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid resistor-bias operation. 1 max. megohm

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

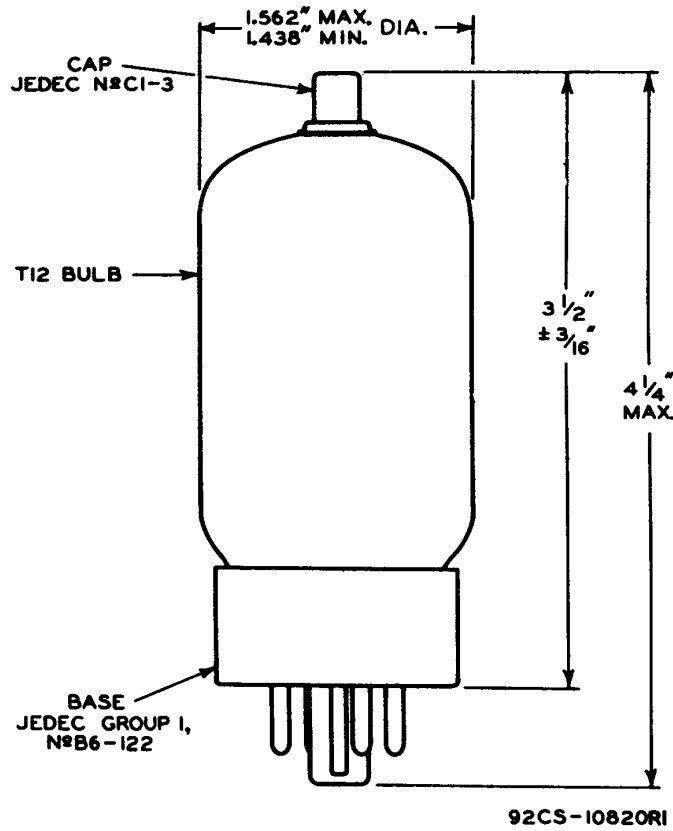
^d This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

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

^f The dc component must not exceed 100 volts.



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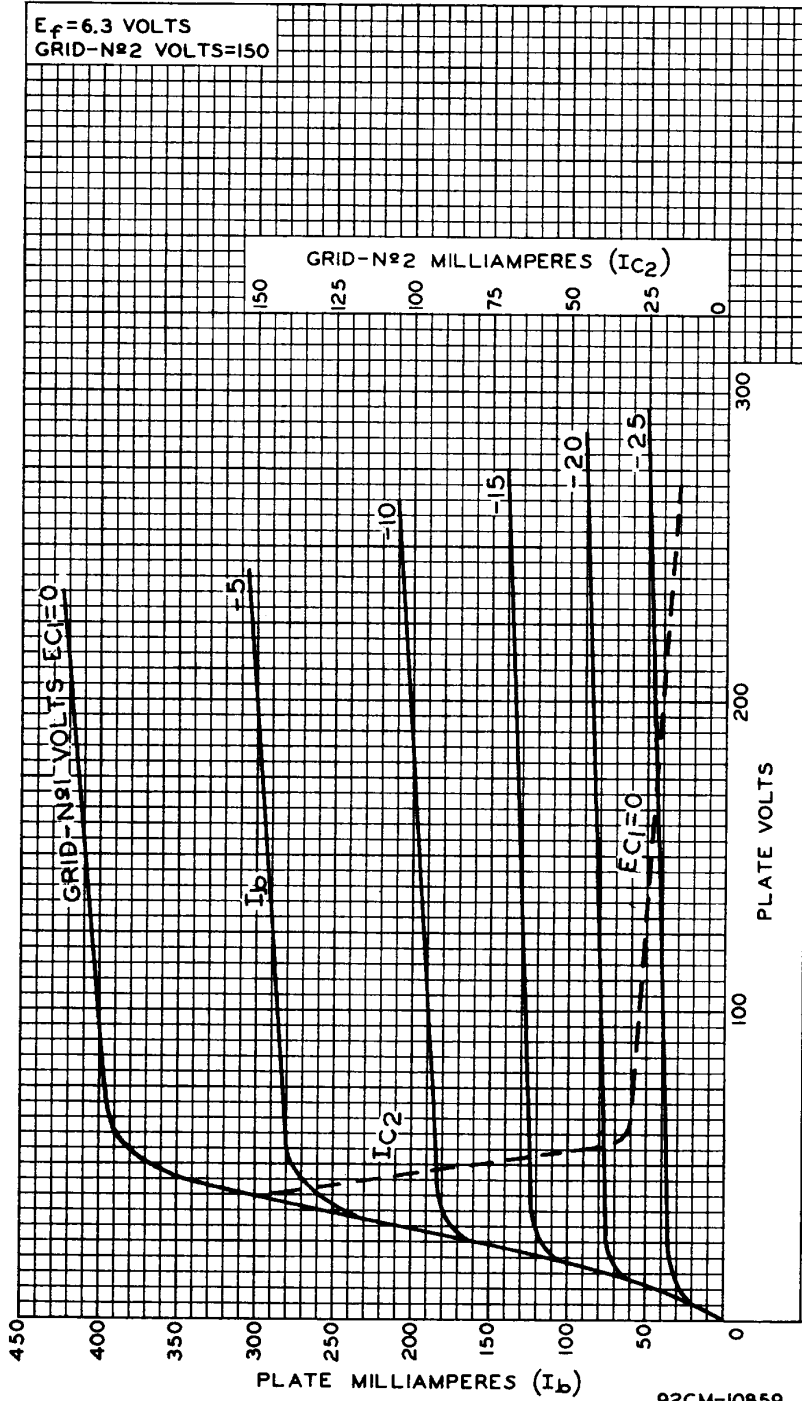


RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
3-61

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AVERAGE CHARACTERISTICS



92CM-10859

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