



6AU5-GT

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BEAM POWER TUBE

GENERAL DATA

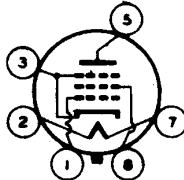
Electrical:

Heater, for Unipotential Cathode:
 Voltage 6.3 ac or dc volts
 Current 1.25 amp
 Direct Interelectrode Capacitances (Approx.):^o
 Grid No.1 to plate 0.5 μ f
 Grid No.1 to cathode & grid No.3,
 grid No.2, and heater 11.3 μ f
 Plate to cathode & grid No.3,
 grid No.2, and heater 7 μ f
 Transconductance[#] 5600 μ mhos
 Mu-Factor, Grid No.2 to Grid No.1[†] 5.9

Mechanical:

Mounting Position Any
 Maximum Overall Length 3-5/16"
 Maximum Seated Length 2-3/4"
 Maximum Diameter 1-9/32"
 Bulb T-9
 Base Intermediate-Shell Octal 6-Pin (JETEC No. B6-8)
 or Short Intermediate-Shell Octal 6-Pin (JETEC No. B6-60)
 Basing Designation for BOTTOM VIEW 6CK

Pin 1 - Grid No.1
 Pin 2 - Heater
 Pin 3 - Cathode,
 Grid No.3



Pin 5 - Plate
 Pin 7 - Heater
 Pin 8 - Grid No.2

HORIZONTAL DEFLECTION AMPLIFIER

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

Maximum Ratings, Design-Center Values:

DC PLATE VOLTAGE 550 max. volts
 PEAK POSITIVE-PULSE
 PLATE VOLTAGE* (Absolute maximum) 5500^o max. volts
 PEAK NEGATIVE-PULSE PLATE VOLTAGE* -1250 max. volts
 DC GRID-NO.2 (SCREEN) VOLTAGE[†] 200 max. volts

^o With no external shield.
[#] For plate volts = 115, grid-no.2 volts = 175, grid-no.1 volts = -20.
[†] For plate volts = 100, grid-no.2 volts = 100, grid-no.1 volts = -4.5.
^o As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
^{*} The duration of the voltage pulse must 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.
[•] Under no circumstances should this absolute value be exceeded.
[†] Preferably obtained through a series dropping resistor of sufficient magnitude to limit the grid-no.2 input to the rated maximum value.

← Indicates a change.

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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 [◇]	10 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	200 max.	volts
Heater positive with respect to cathode.	200 [◆] max.	volts
BULB TEMPERATURE (At hottest point) [▲] . . .	210 max.	°C

Maximum Circuit Values:

→ Grid-No.1-Circuit Resistance	0.47 max.	megohm
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VOLTAGE REGULATOR SERVICE

Triode Connection--Grid No.2 Connected to Plate

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Negative bias value	125 max.	volts
Positive bias value	0 max.	volts
CATHODE CURRENT	110 max.	ma
PLATE & GRID-No.2		
DISSIPATION (Total)	10 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	200 max.	volts
Heater positive with respect to cathode.	200 [◆] max.	volts

- ◇ An adequate cathode-bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- ◆ The dc component must not exceed 100 volts.
- ▲ For tube in vertical position with base down in free space and with natural ventilation, the hottest point on the bulb is in the center of the dome just above open end of cathode sleeve.

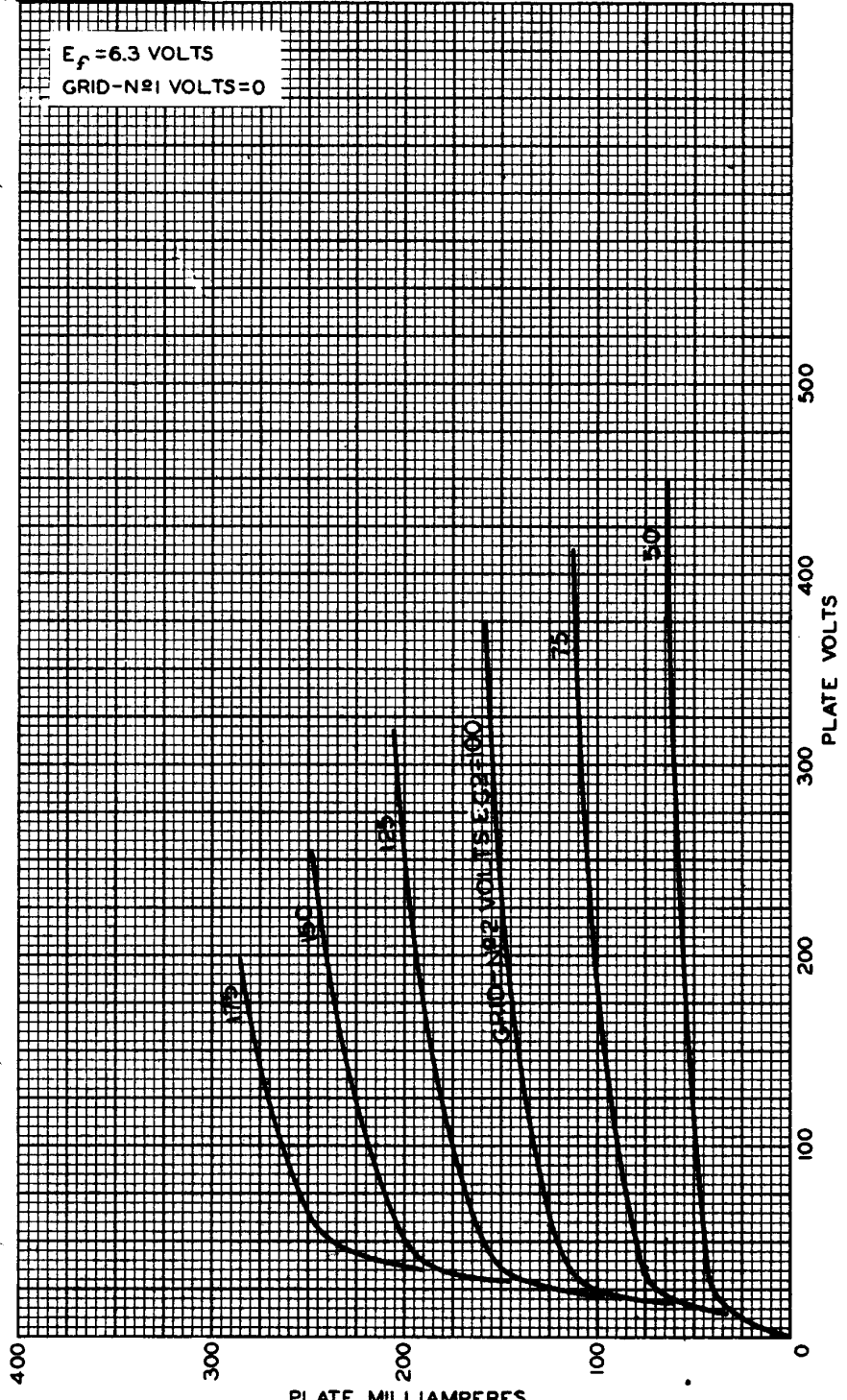
→ indicates a change.



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AVERAGE PLATE CHARACTERISTICS



SEPT. 8, 1949

PLATE MILLIAMPERES
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

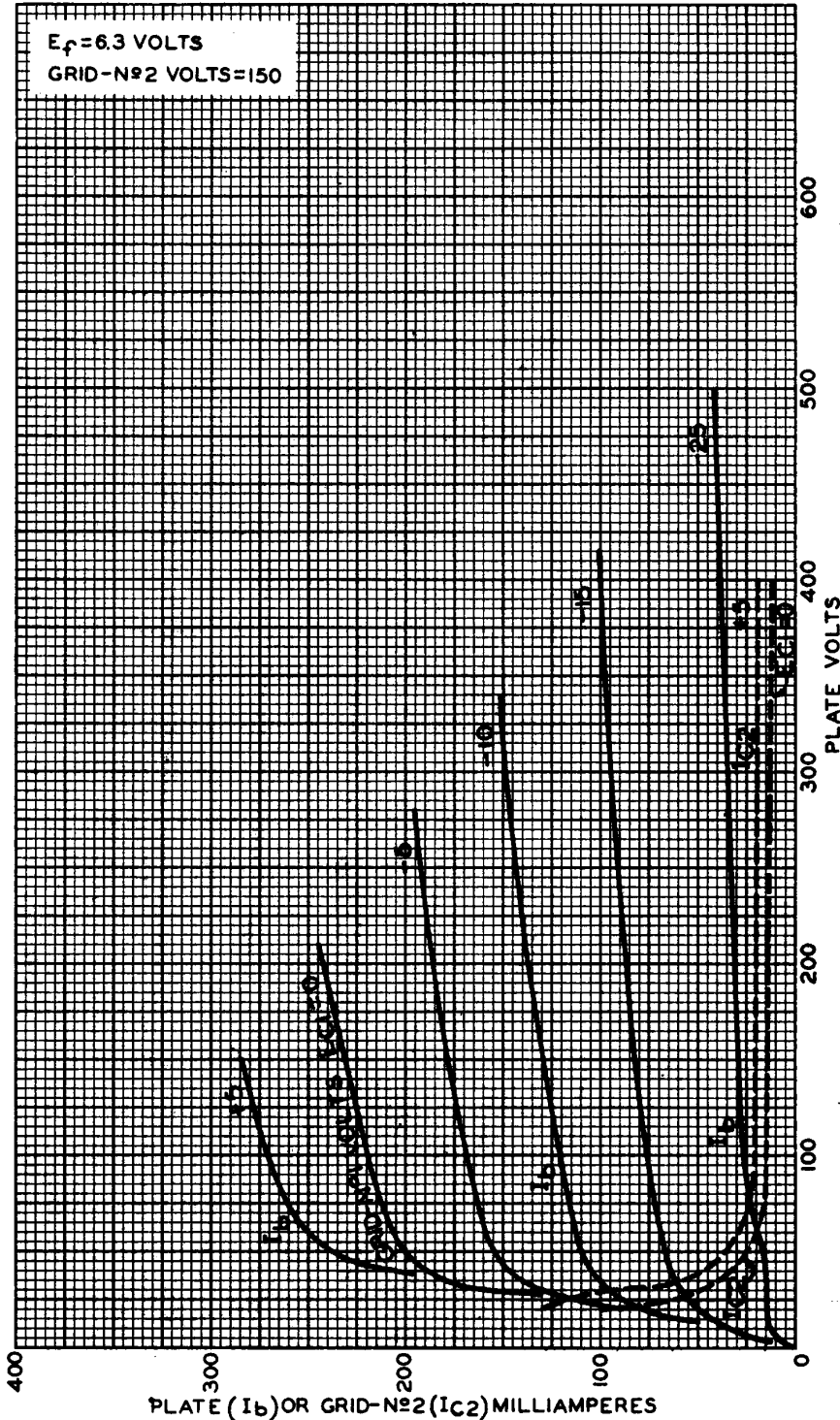
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AVERAGE PLATE CHARACTERISTICS



AUG. 29, 1949

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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