



6AV5-GT

6AV5-GT

BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts

Current 1.2 amp

Direct Interelectrode Capacitances:⁰Grid No.1 to Plate . . . 0.7 μf Input 14 μf Output 7 μf ⁰ With no external shield.Characteristics, Amplifier Class A₁:

Plate Voltage 60* 150 250 volts

Grid-No.2 (Screen) Voltage . . . 150* 150 150 volts

Grid-No.1 (Control-Grid) Voltage . . . 0 -22.5 -22.5 volts

 μ -Factor, Grid No.2 to Grid No.1 . . . - 4.3 -

Plate Resistance - - 20000 ohms

Transconductance - - 5500 μmhos

Plate Current 225 - 55 ma

Grid-No.2 Current 25 - 2.1 ma

Grid-No.1 Voltage (Approx.)

for plate current of 1 ma . . . - - -46 volts

Mechanical:

Mounting Position Any

Maximum Overall Length 3-5/16"

Maximum Seated Length 2-3/4"

Maximum Diameter 1-9/32"

Bulb T-9

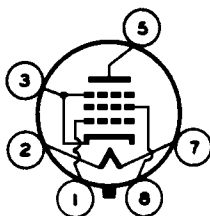
Base . . . { Intermediate-Shell Octal 6-Pin (JETEC No. B6-8)

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

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system*

DC PLATE SUPPLY VOLTAGE

(Including Boost Voltage) 550 max. volts

* Applied for very short interval so as not to damage tube.

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

APRIL 1, 1953

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

6AV5-GT



6AV5-GT

BEAM POWER AMPLIFIER

PEAK POSITIVE-PULSE PLATE VOLTAGE*	5500	max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE*	1250	max.	volts
DC GRID-No.2 (SCREEN) VOLTAGE	175	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE*	300	max.	volts
CATHODE CURRENT:			
Peak	400	max.	ma
DC	110	max.	ma
GRID-No.2 INPUT	2.5	max.	watts
PLATE DISSIPATION#	11	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 on bulb surface)	210	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	0.47	max.	megohm
------------------------------	------	------	--------

* Under no circumstances should this absolute value be exceeded.

* 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.

* It is essential that the plate dissipation be limited in the event of loss of grid signal. For this purpose, some protective means such as a cathode resistor of suitable value should be employed.

* The dc component must not exceed 100 volts.

APRIL 1, 1953

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

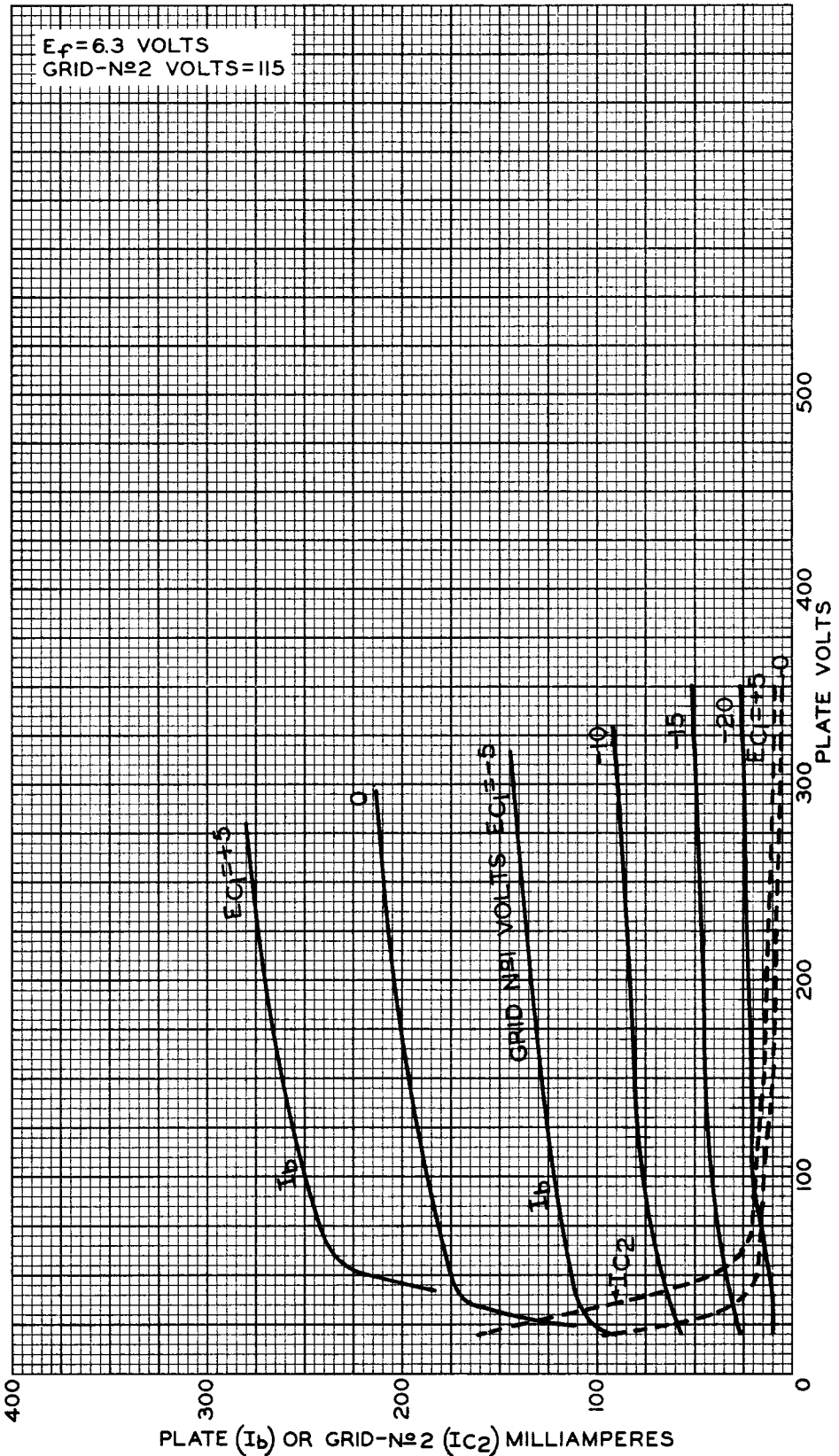


6AV5-GT

6AV5-GT

AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS
GRID-Nº2 VOLTS = 115



MAR. 10, 1953

TUBE DEPARTMENT

92CM-7941

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY