

High-Mu Triode-Beam Power Tube**NOVAR TYPE**

**For Combined Vertical-Deflection Oscillator
and Amplifier Service in TV Receivers**

Electrical:**Heater Characteristics and Ratings:**

Voltage (AC or DC). 6.3 ± 0.6 volts

Current at heater volts = 6.3. 1.100 amp

Peak heater-cathode voltage (Each unit):

Heater negative with respect to cathode 200 max. volts

Heater positive with respect to cathode 200^a max. volts

Direct Interelectrode Capacitances (Approx.):^b**Triode Unit:**

Grid to plate 0.44 pf

G_T to (K_T, H) 15.0 pf

P_T to (K_T, H) 7.0 pf

Beam Power Unit:

Grid No.1 to plate. 0.048 pf

G_{1B} to (K_B+G_{3B}, G_{2B}, H) 2.6 pf

P_B to (K_B+G_{3B}, G_{2B}, H) 0.28 pf

Mechanical:

Operating Position. Any

Type of Cathodes. Coated Unipotential

Maximum Overall Length. 2.380"

Seated Length 1.750" to 2.000"

Diameter. 1.062" to 1.188"

Dimensional Outline See General Section

Bulb. T9

Base. Small Button Novar 9-Pin with Exhaust Tip
(JEDEC No. E9-89)

Basing Designation for BOTTOM VIEW. 9QT

Pin 1-Triode Cathode

Pin 2-Beam Power Grid No.1

Pin 3-Beam Power Cathode &
Grid No.3

Pin 4-Heater

Pin 5-Heater

Pin 6-Beam Power Plate

Pin 7-Beam Power Grid No.2

Pin 8-Triode Plate

Pin 9-Triode Grid

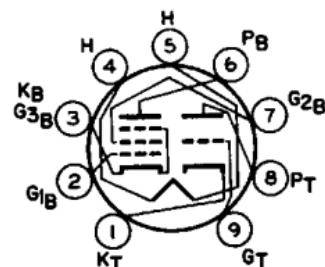
**Characteristics, Class A₁ Amplifier:****Triode Unit Beam Power Unit**

Plate Voltage. 250 50 135 120 volts

Grid-No.2 Voltage. . . . - 120 120 Connected
to plate
at socket

Grid-No.1 Voltage. . . . -3 0 -10 -10 volts

Amplification Factor 64 - - 7



6KY8A

| | Triode Unit | Beam Power Unit | | |
|--|-------------|------------------|-------|-------------|
| Plate Resistance (Approx.). | 40000 | - | 18000 | - ohms |
| Transconductance | 1600 | - | 8400 | - μ hos |
| Plate Current | 1.4 | 170 ^c | 39 | - ma |
| Grid-No.2 Current | - | 20 ^c | 3 | - ma |
| Grid-No.1 Voltage (Approx.) for plate ma = 1 | - | - | -24 | - volts |

VERTICAL-DEFLECTION OSCILLATOR (Triode Unit)

Maximum Ratings, Design-Maximum Values:

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

| | | | |
|---|-----|------|-------|
| DC Plate Voltage. | 330 | max. | volts |
| Peak Negative-Pulse Grid Voltage. | 400 | max. | volts |
| Peak Cathode Current. | 77 | max. | ma |
| Average Cathode Current | 22 | max. | ma |
| Plate Dissipation | 1.5 | max. | watts |

Maximum Circuit Values:

Grid-Circuit Resistance:

For grid-resistor-bias operation. 2.2 max. megohms

VERTICAL-DEFLECTION AMPLIFIER (Beam Power Unit)

Maximum Ratings, Design-Maximum Values:

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

| | | | |
|--|------|----------|-------|
| DC Plate Voltage. | 300 | max. | volts |
| Peak Positive-Pulse Plate Voltage ^e | 2000 | abs.max. | volts |
| DC Grid-No.2 (Screen-Grid) Voltage. | 150 | max. | volts |
| Peak Negative-Pulse Grid-No.1 (Control-Grid) Voltage. | 250 | max. | volts |
| Peak Cathode Current. | 200 | max. | ma |
| Average Cathode Current | 70 | max. | ma |
| Plate Dissipation | 12 | max. | watts |
| Grid-No.2 Input | 1.9 | max. | watts |

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid-resistor-bias operation. 2.2 max. megohms

^a The dc component must not exceed 100 volts.

^b Without external shield.

^c This value can be measured by a method involving a recurrent wave form such that the plate dissipation and grid-No.2 input will be kept within ratings in order to prevent damage to the tube.

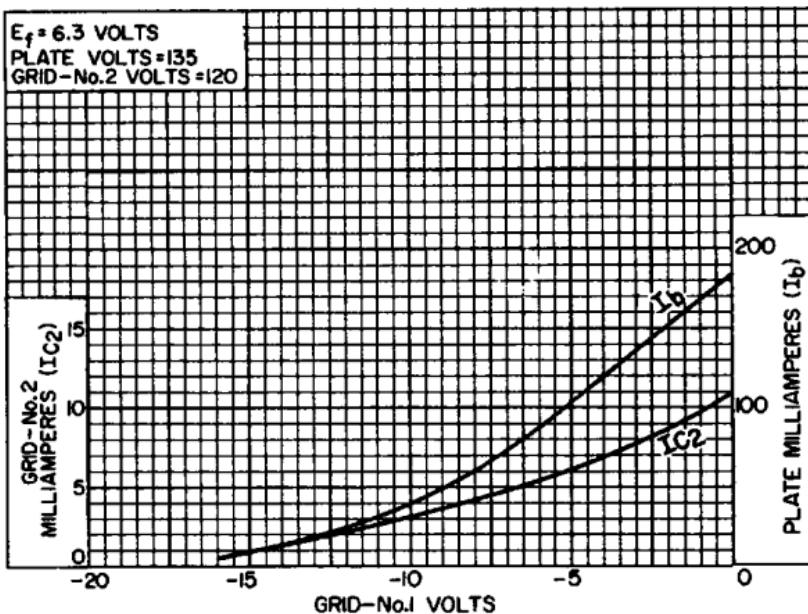
^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

^e This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.



AVERAGE CHARACTERISTICS

Beam Power Unit

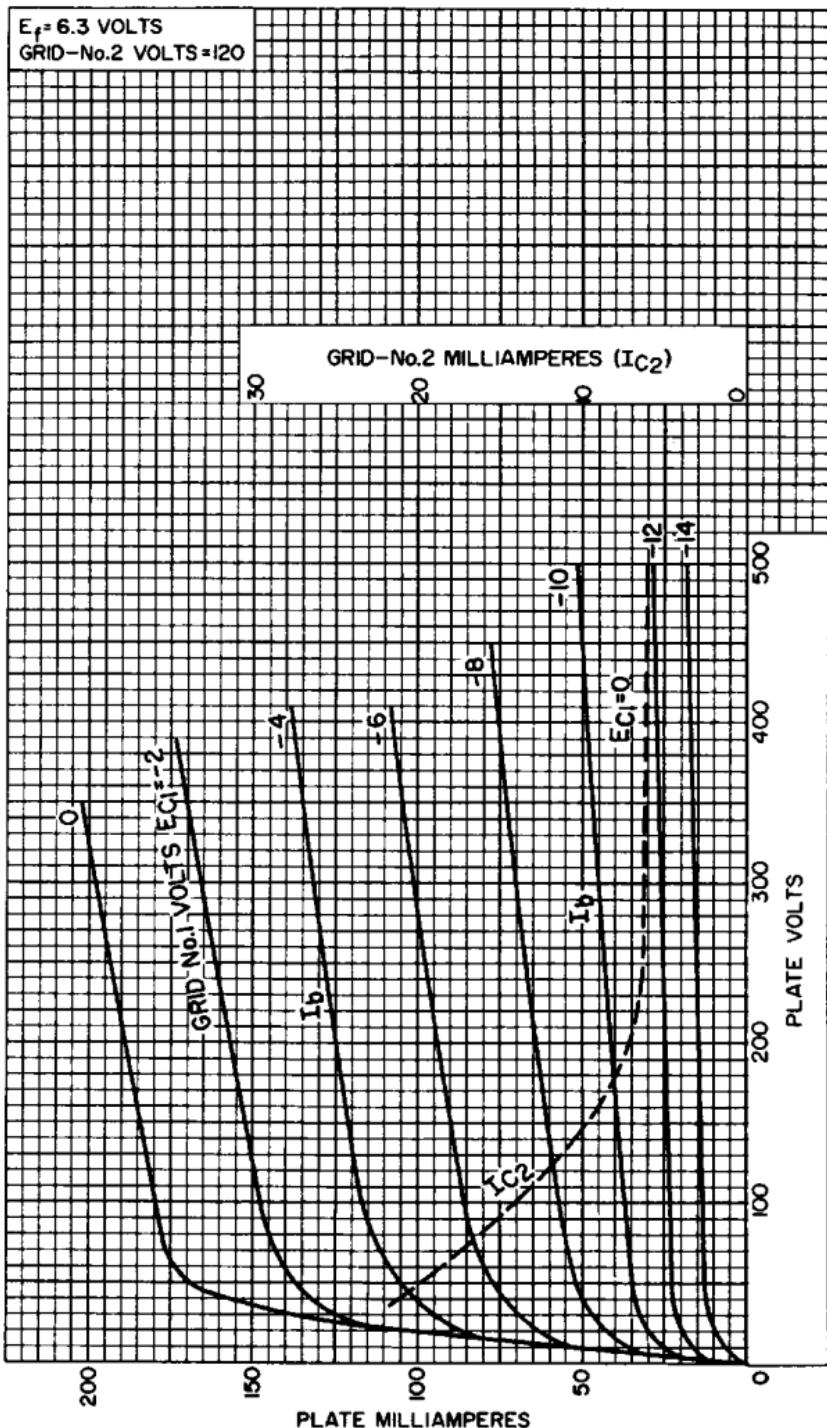


92CS-11929



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AVERAGE CHARACTERISTICS Beam Power Unit

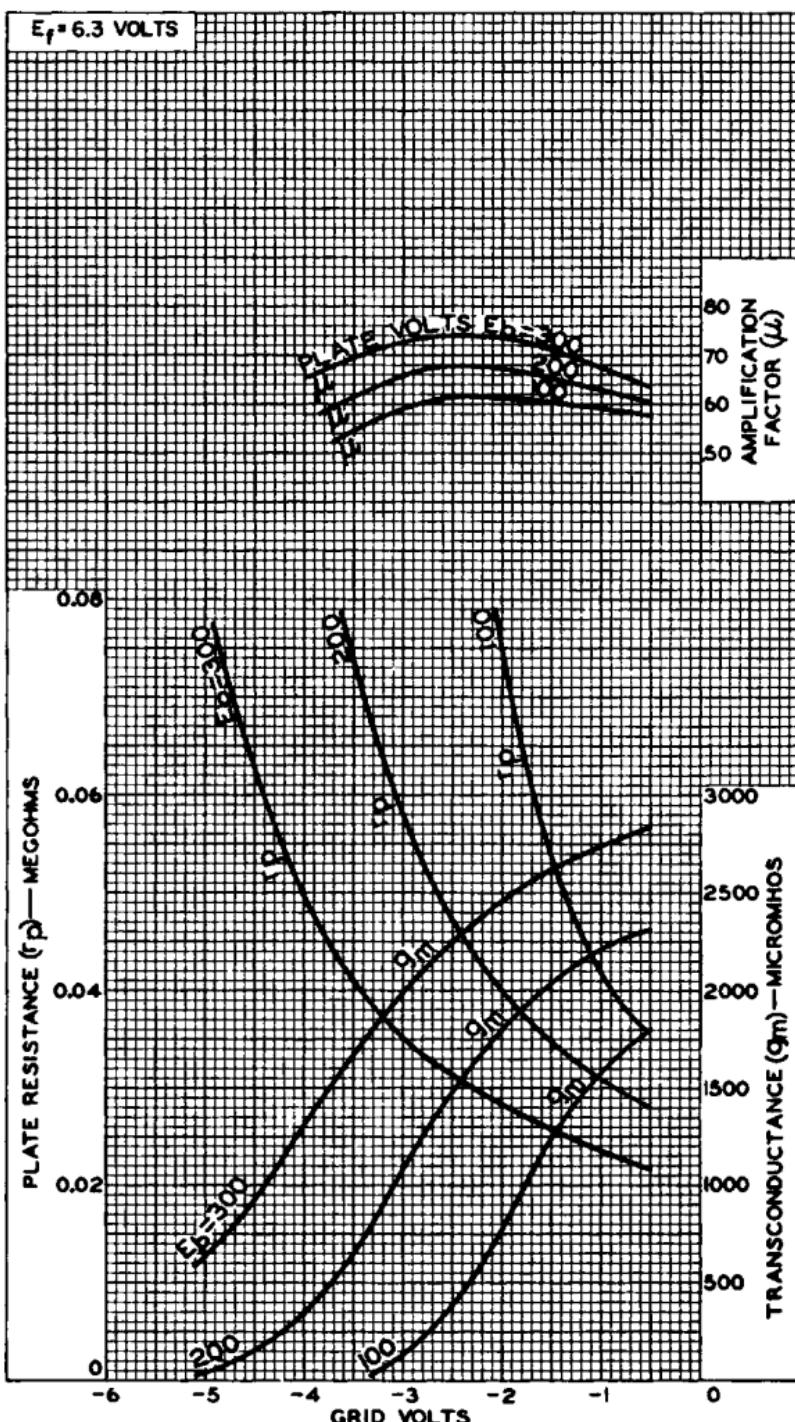


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**AVERAGE CHARACTERISTICS
Triode Unit**



92CM-II945



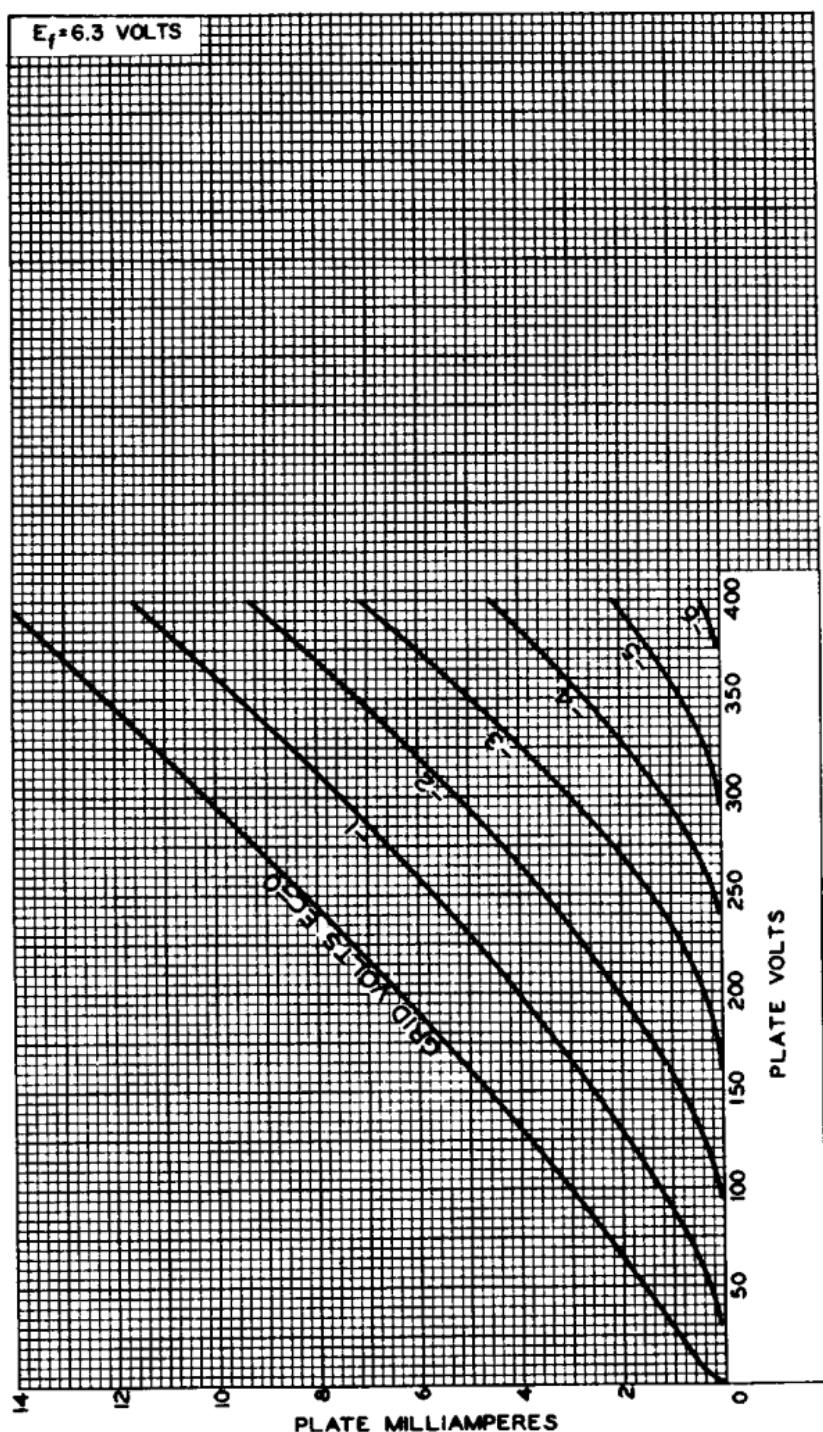
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Electronic Components and Devices

Harrison, N. J.

DATA 3
10-64

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AVERAGE CHARACTERISTICS Triode Unit



92CM-11944

RADIO CORPORATION OF AMERICA

Manufacturers of Radio and Phonograph

Harrison, N. J.

