



6DR7

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DUAL TRIODE

With High-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 $\pm$ 10% ac or dc volts

Current. 0.9 amp

Direct Interelectrode Capacitances (Approx.):⁰

Unit No.1 Unit No.2

Grid to plate. 4.5 8.5 $\mu\mu\text{f}$ Grid to cathode and heater. . . . 2.2 5.5 $\mu\mu\text{f}$ Plate to cathode and heater. . . . 0.34 1 $\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

Unit No.1 Unit No.2

Plate Voltage. 250 150 volts

Grid Voltage. -3 -17.5 volts

Amplification Factor. 68 6

Plate Resistance (Approx.) 40000 925 ohms

Transconductance. 1600 6500 μmhos

Plate Current. 1.4 35 ma

Plate Current for plate volts = 60

and grid volts = 0 - 80 ma

Plate Current for grid volts = -24. . . . - 10 ma

Grid Voltage (Approx.) for plate

 $\mu\text{a} = 10$ -5.5 - volts

Grid Voltage (Approx.) for plate

 $\mu\text{a} = 50$ - -44 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length. 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip) 2" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline. See General Section

Bulb. T6-1/2

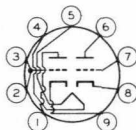
Base. Small-Button Noval 9-Pin (JEDEC No. E9-1)

Basing Designation for BOTTOM VIEW. 9HF

Pin 1-Plate of
Unit No.2Pin 2-Grid of
Unit No.2Pin 3-Grid of
Unit No.2

Pin 4-Heater

Pin 5-Heater

Pin 6-Plate of
Unit No.1Pin 7-Grid of
Unit No.1Pin 8-Cathode of
Unit No.1Pin 9-Cathode of
Unit No.2



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DUAL TRIODE

With High-Mu Unit and Low-Mu Unit

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

Maximum Ratings, Design-Maximum Values:

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

DC PLATE VOLTAGE	330	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE	400	max.	volts
CATHODE CURRENT:			
Peak	70	max.	ma
Average.	20	max.	ma
PLATE DISSIPATION.	1	max.	watt
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

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

VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No. 2

Maximum Ratings, Design-Maximum Values:

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

DC PLATE VOLTAGE	275	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE [#] . . .	1500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE	250	max.	volts
CATHODE CURRENT:			
Peak	175	max.	ma
Average.	50	max.	ma
PLATE DISSIPATION.	7	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

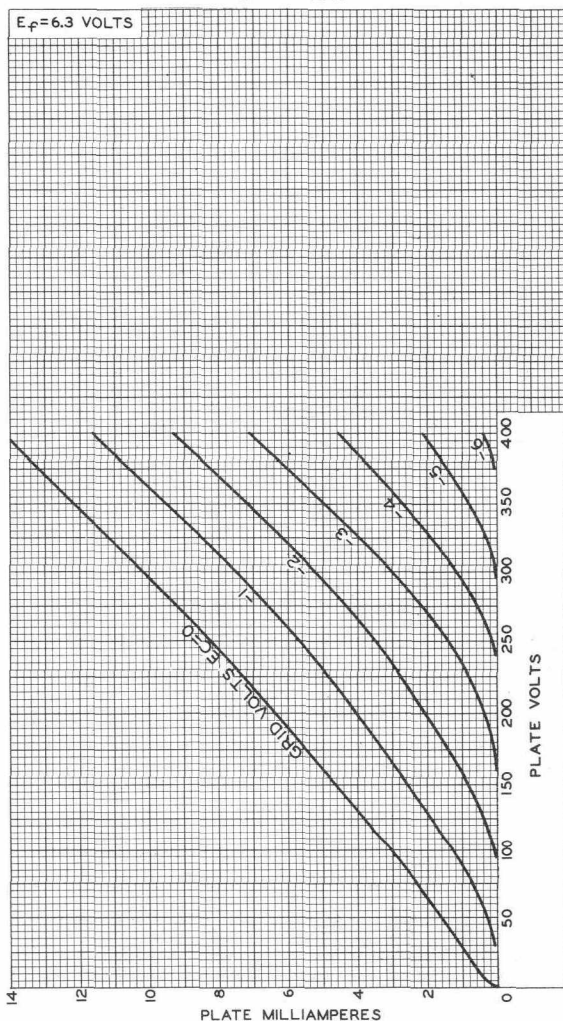
For grid-resistor-bias or cathode-bias operation 2.2 max. megohms

* Without external shield.

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

[#] 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.

■ The dc component must not exceed 100 volts.

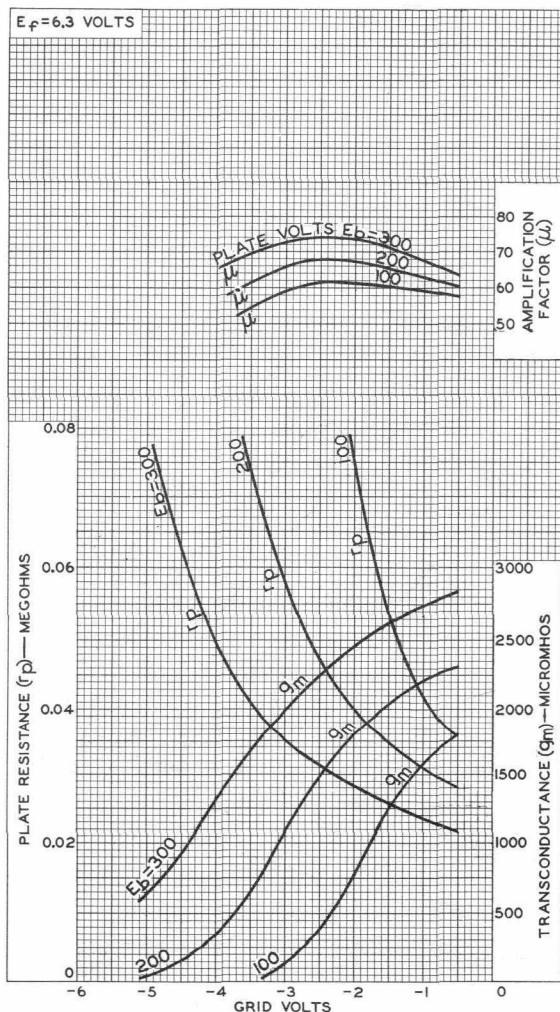
AVERAGE PLATE CHARACTERISTICS
Unit No.1

92CM-9912



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AVERAGE CHARACTERISTICS Unit No.1



92CM-9915R1

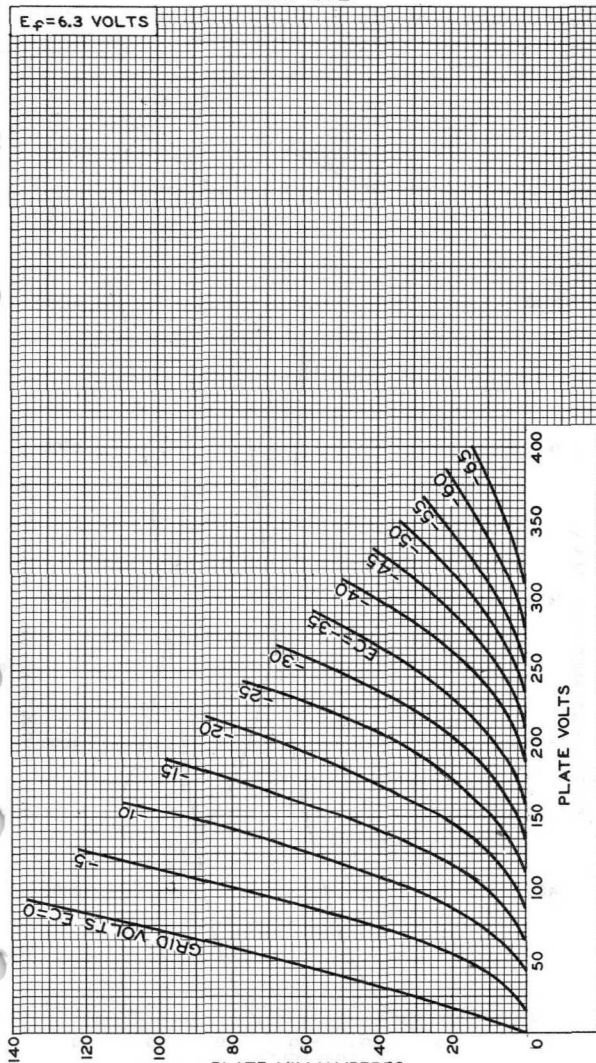




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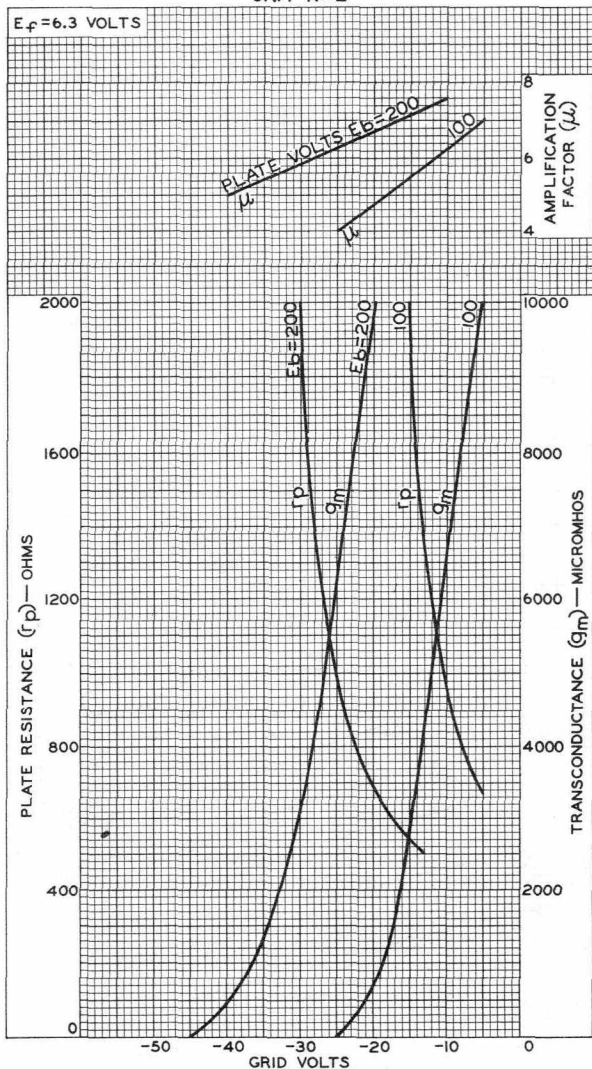
AVERAGE PLATE CHARACTERISTICS UNIT No 2



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AVERAGE CHARACTERISTICS
UNIT No 2

ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9914