



6DR7

DUAL TRIODE

With High-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

6DR7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

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

Current. 0.9 amp

Direct Interelectrode Capacitances (Approx.):^o

	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 μa = 10.	-5.5	-	volts
Grid Voltage (Approx.) for plate μa = 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

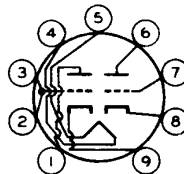
Pin 1-Plate of
Unit No. 2

Pin 2-Grid of
Unit No. 2

Pin 3-Grid of
Unit No. 2

Pin 4-Heater

Pin 5-Heater



Pin 6-Plate of
Unit No. 1

Pin 7-Grid of
Unit No. 1

Pin 8-Cathode of
Unit No. 1

Pin 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^o

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^o

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

^o Without external shield.

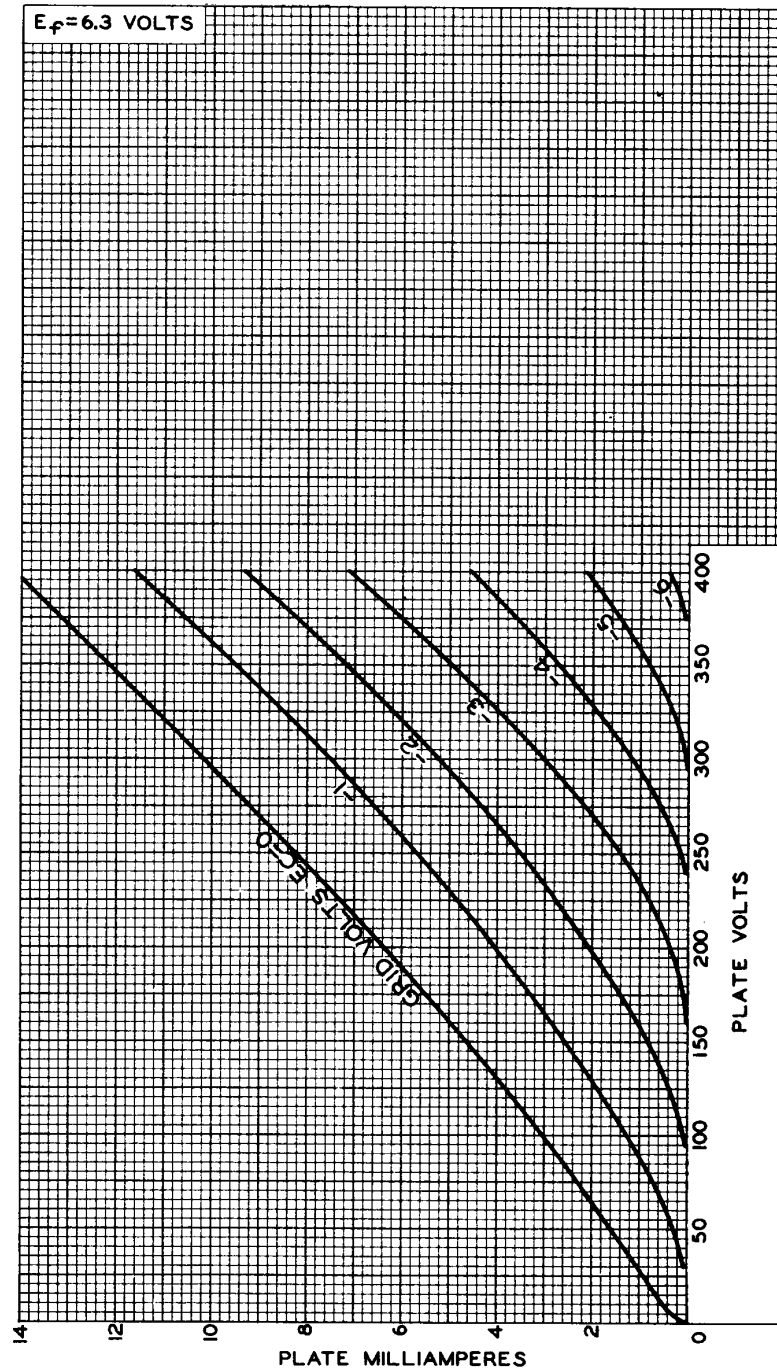
[•] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

[#] 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.

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AVERAGE PLATE CHARACTERISTICS Unit No.1



92CM-9912

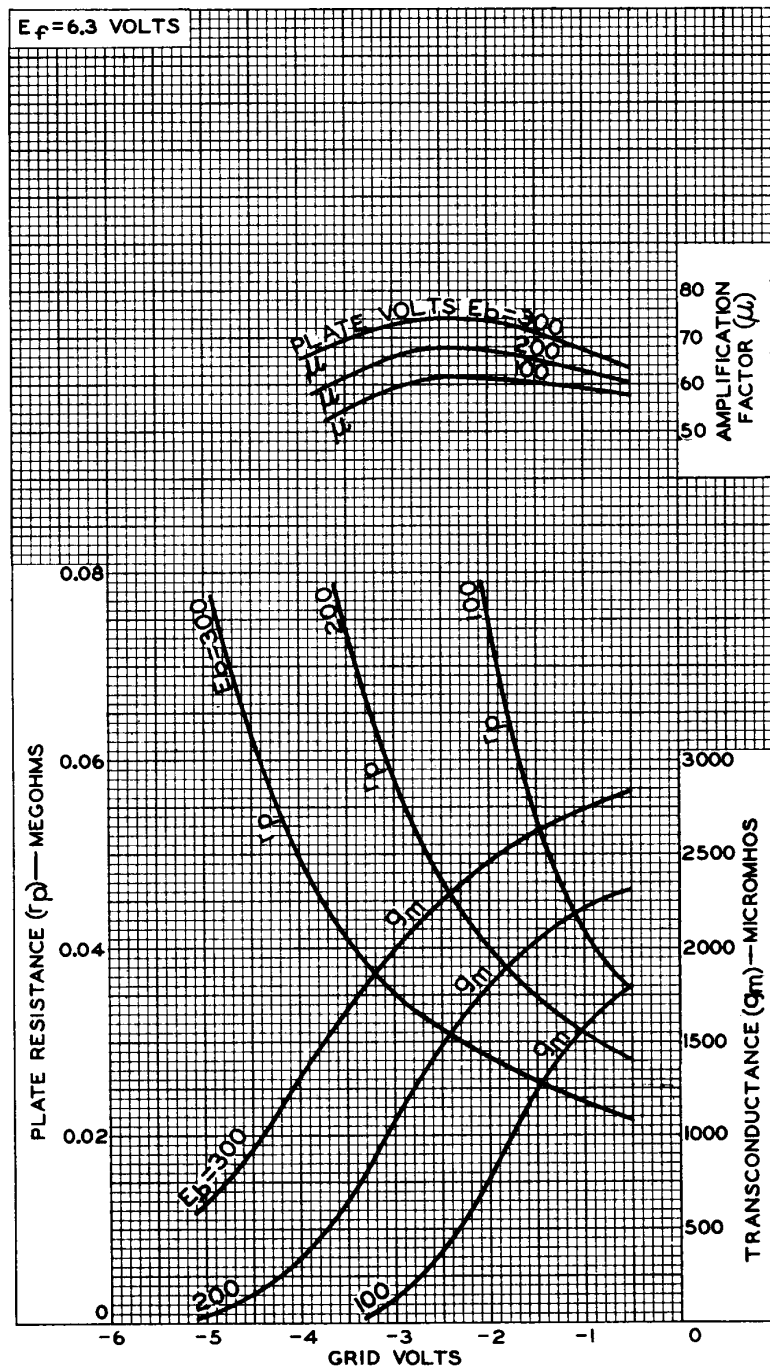


RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
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AVERAGE CHARACTERISTICS Unit No.1



92CM-9915R1

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Electron Tube Division

Harrison, N. J.

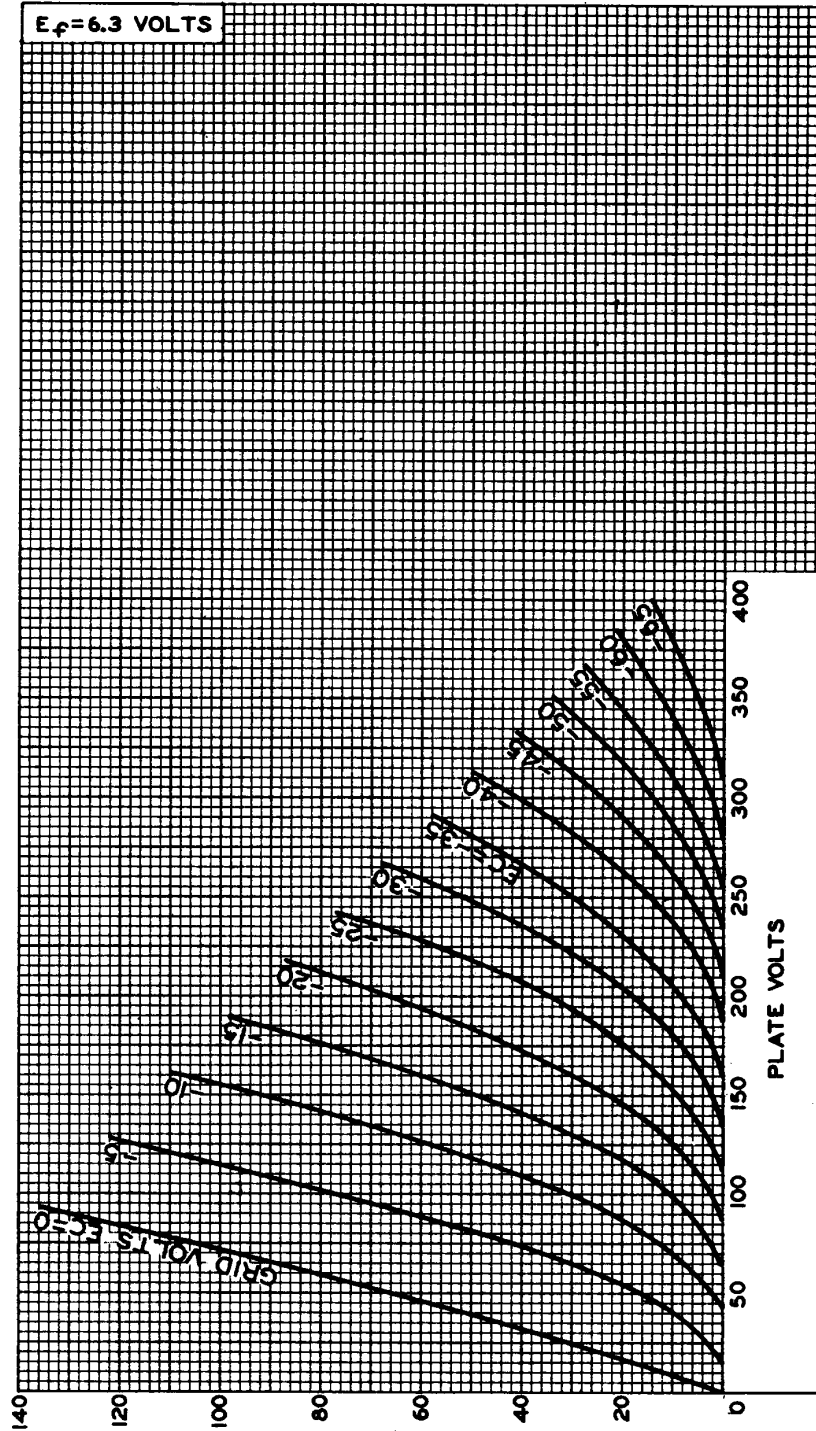




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AVERAGE PLATE CHARACTERISTICS UNIT No 2



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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

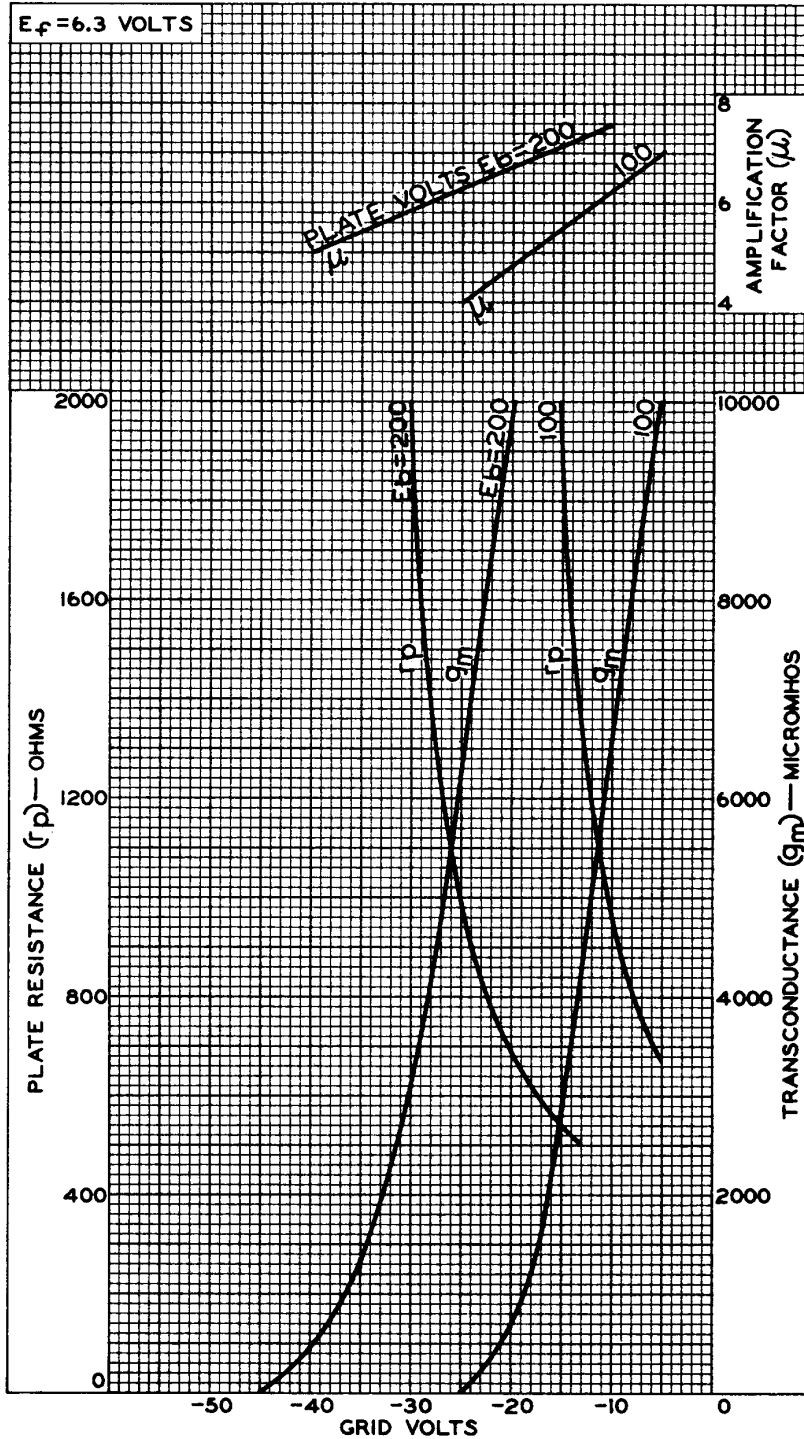
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AVERAGE CHARACTERISTICS UNIT № 2



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92CM-9914