

Dual Triode

With Medium-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (<i>Design-Maximum Values</i>):			
Voltage (AC or DC)	6.3 ± 0.6	volts	
Current at heater volts = 6.3	0.900	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			
	<i>Unit No. 1</i>	<i>Unit No. 2</i>	
Grid to plate	4.0	8.5	μf
Grid to cathode and heater.	2.2	5.5	μf
Plate to cathode and heater	0.52	1.0	μf

Characteristics, Class A₁ Amplifier:

	<i>Unit No. 1</i>	<i>Unit No. 2</i>	
Plate Voltage	250	60 150	volts
Grid Voltage.	-11	0 -17.5	volts
Amplification Factor.	17.5	- 6	
Plate Resistance (Approx.).	8750	- 925	ohms
Transconductance.	2000	- 6500	μmhos
Plate Current	5.5	80 ^c 35	ma
Plate Current for grid volts =			
-24	-	- 10	ma
Grid Voltage (Approx.) for plate			
μa = 10	-20	-	volts
Grid Voltage (Approx.) for plate			
μa = 50	-	-44	volts

Mechanical:

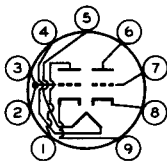
Operating Position.	Any
Type of Cathodes.	Coated Unipotential
Maximum Overall Length.	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip).	2" ± 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)



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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

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No.1

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
CATHODE CURRENT:		
Peak.	77 max.	ma
Average	22 max.	ma
→ PLATE DISSIPATION	1.5 max.	watts

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^d

DC PLATE VOLTAGE.	275 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^a	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

Maximum Circuit Values:

Grid-Circuit Resistance:

For grid-resistor-bias or cathode-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 maximum ratings of the tube will not be exceeded.

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

→ Indicates a change.





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* This rating is applicable when 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.

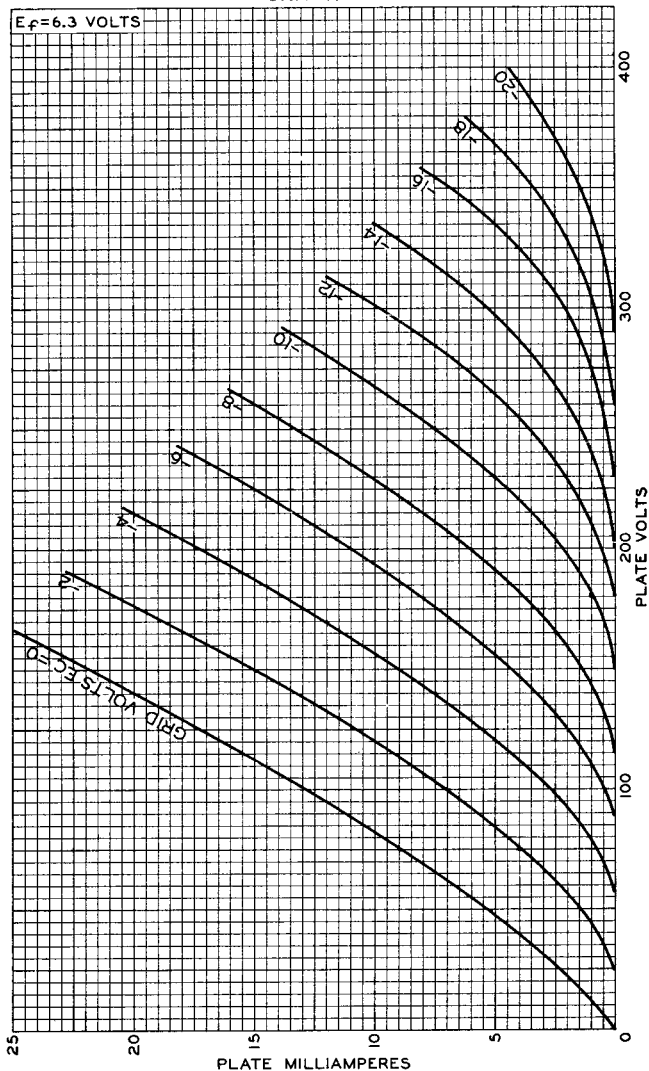
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AVERAGE PLATE CHARACTERISTICS
UNIT No 1

$E_f = 6.3$ VOLTS

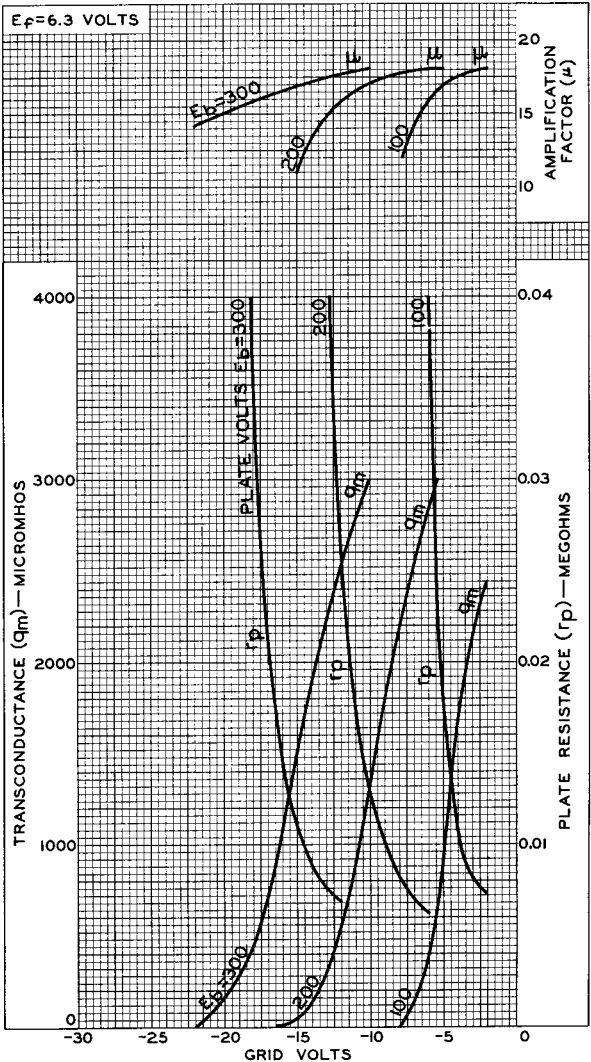




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AVERAGE CHARACTERISTICS
UNIT No 1

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AVERAGE PLATE CHARACTERISTICS UNIT No 2

$E_f = 6.3$ VOLTS

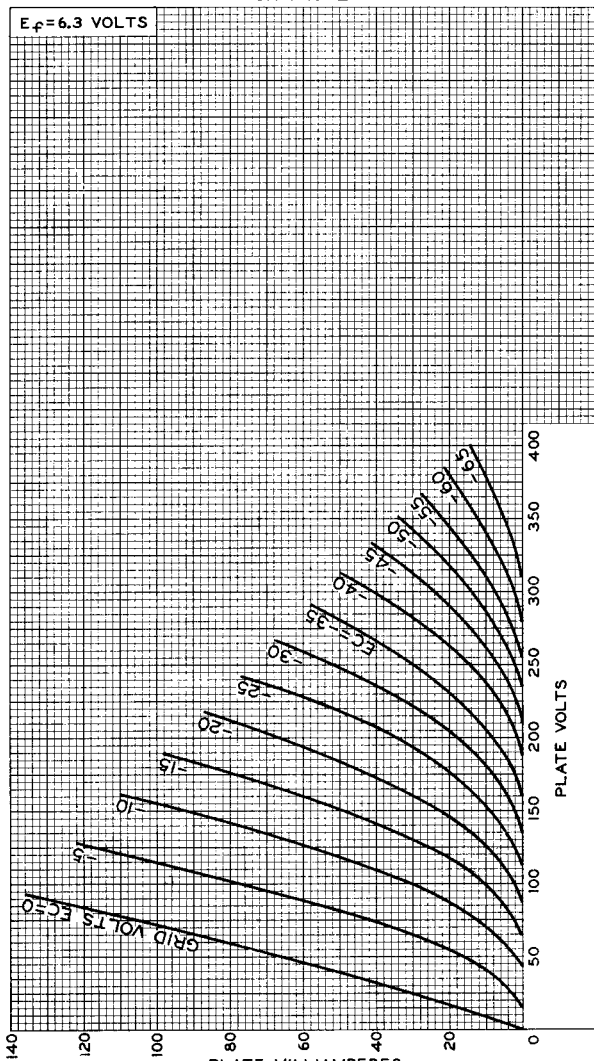


PLATE MILLIAMPERES
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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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AVERAGE CHARACTERISTICS UNIT No 2

