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HIGH-MU TRIODE— SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

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

Current. 0.75 amp.

Direct Interelectrode Capacitances:^o

Triode Unit:

Grid to plate. 4.4 μ fGrid to cathode and heater. 2.4 μ fPlate to cathode and heater. 0.36 μ f

Pentode Unit:

Grid No.1 to plate. 0.1 max. μ fGrid No.1 to cathode &
internal shield & grid
No.3, grid No.2, and
heater. 11 μ fPlate to cathode & internal
shield & grid No.3, grid
No.2, and heater. 4.2 μ fTriode grid to pentode plate. 0.018 max. μ fPentode grid No.1 to triode plate. 0.005 max. μ fPentode plate to triode plate. 0.17 max. μ f

Characteristics, Class A₁ Amplifier:

	Triode Unit	Pentode Unit	
Plate-Supply Voltage	250	45 200	volts
Grid-No.2 Supply Voltage	-	125 125	volts
Grid-No.1 Voltage.	-2	0 -	volts
Cathode Resistor	-	- 68	ohms
Amplification Factor	100	- -	
Plate Resistance (Approx.)	37000	- 75000	ohms
Transconductance	2700	- 12500	μ hos
Plate Current.	2	40* 25	ma
Grid-No.2 Current.	-	15* 7	ma
Grid-No.1 Voltage (Approx.) for plate μ a = 100	-	- -9	volts
Grid Voltage (Approx.) for plate μ a = 20.	-5	- -	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

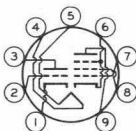


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Base Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9DX

Pin 1—Triode
 Cathode
 Pin 2—Triode
 Grid
 Pin 3—Triode
 Plate
 Pin 4—Heater
 Pin 5—Heater



Pin 6—Pentode
 Cathode,
 Grid No.3,
 Internal
 Shield
 Pin 7—Pentode
 Grid No.1
 Pin 8—Pentode
 Grid No.2
 Pin 9—Pentode
 Plate

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

	Triode Unit	Pentode Unit	
PLATE VOLTAGE	330 max.	330 max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE.	-	330 max.	volts
GRID-No.2 VOLTAGE	-	See Grid-No.2 Input	

Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Positive-bias value . . .	0 max.	0 max.	volts
PLATE DISSIPATION	1 max.	5 max.	watts
GRID-No.2 INPUT:			
For grid-No.2 voltages up to 165 volts	-	1.1 max.	watts
For grid-No.2 voltages between 165 and 330 volts	-	See Grid-No.2 Input	

Rating Chart at front of Receiving Tube Section

PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode. . .	200 max.	200 max.	volts
Heater positive with respect to cathode. . .	200 [▲] max.	200 [▲] max.	volts

Maximum Circuit Values:

	Triode Unit	Pentode Unit	
Grid-No.1-Circuit Resistance:			
For fixed-bias operation. . .	0.5 max.	0.25 max.	megohm
For cathode-bias operation	1 max.	1 max.	megohm



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- Without external shield.
- * 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.
- ▲ The dc component must not exceed 100 volts.

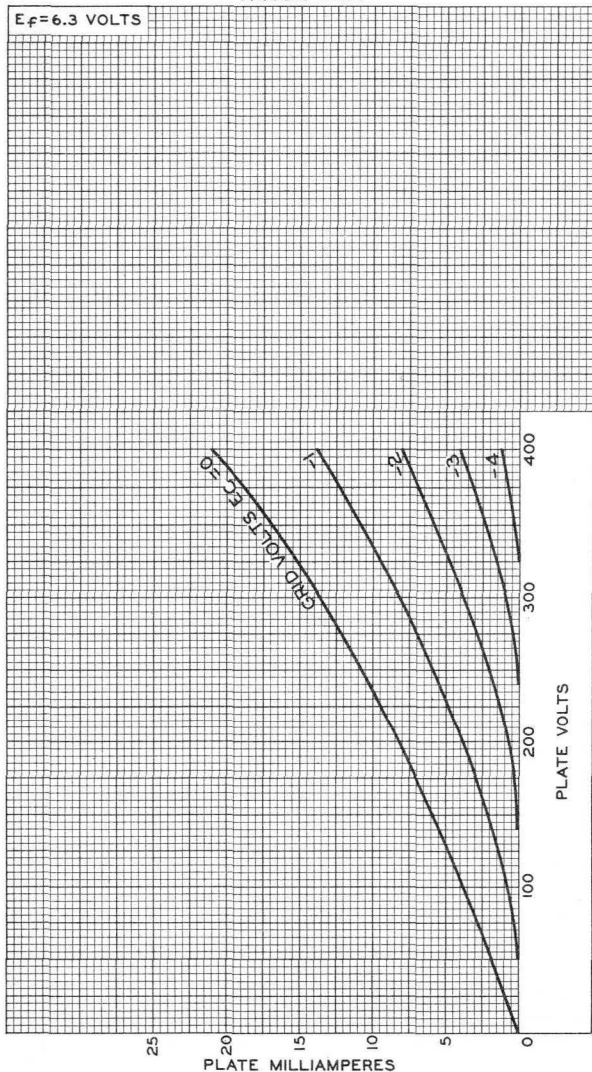
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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

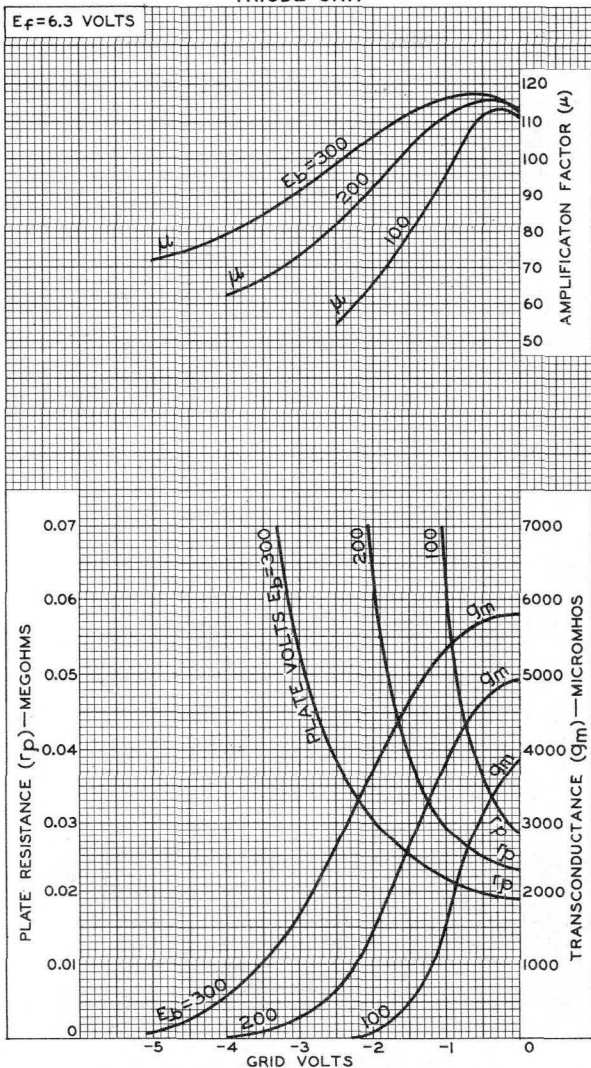
$E_f = 6.3$ VOLTS





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AVERAGE CHARACTERISTICS
TRIODE UNIT $E_f = 6.3$ VOLTS

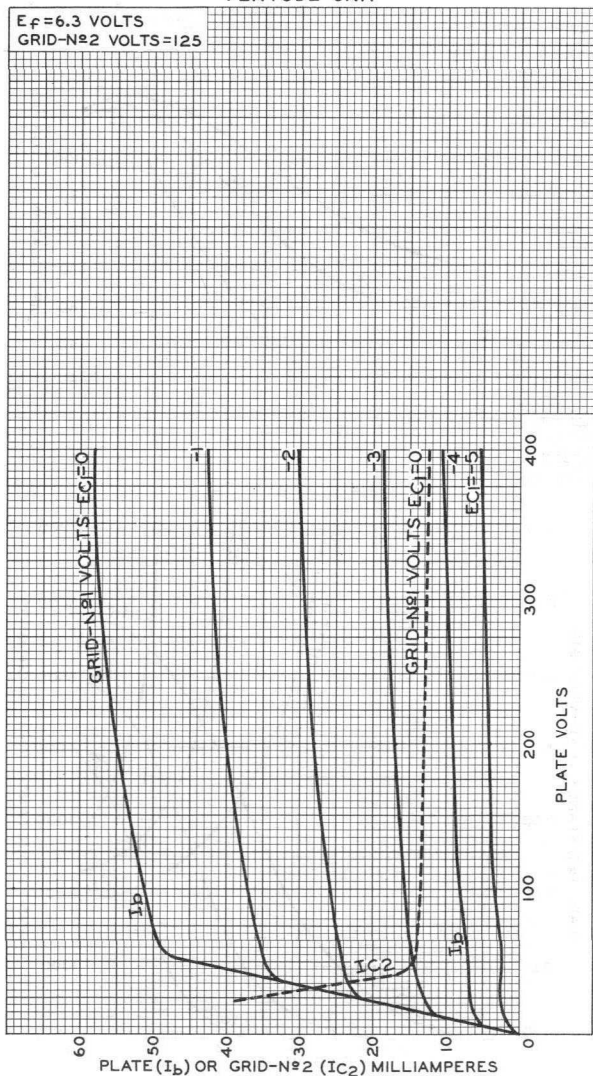
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AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
GRID-N ϕ 2 VOLTS = 125



ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9906



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AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
PLATE VOLTS = 200
GRID-N $\circ$ 2 VOLTS = 125

