



6EB8

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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 μf Grid to cathode and heater . . . 2.4 μf Plate to cathode and heater. . . 0.36 μf *Pentode Unit:*Grid No.1 to plate 0.1 max. μf Grid No.1 to cathode &
internal shield & grid
No.3, grid No.2, and
heater 11 μf Plate to cathode & internal
shield & grid No.3, grid
No.2, and heater 4.2 μf Triode grid to pentode plate . . . 0.018 max. μf Pentode grid No.1 to triode plate. 0.005 max. μf Pentode plate to triode plate. . . 0.17 max. μf **Characteristics, Class A₁ Amplifier:**

	<i>Triode Unit</i>	<i>Pentode Unit</i>		
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	μmhos
Plate Current.	2	40*	25	ma
Grid-No.2 Current.	—	15*	7	ma
Grid-No.1 Voltage (Approx.) for plate μa = 100	—	—	-9	volts
Grid Voltage (Approx.) for plate μa = 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

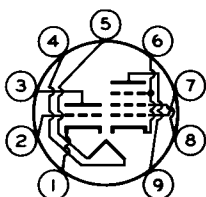


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Base Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9DX

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.

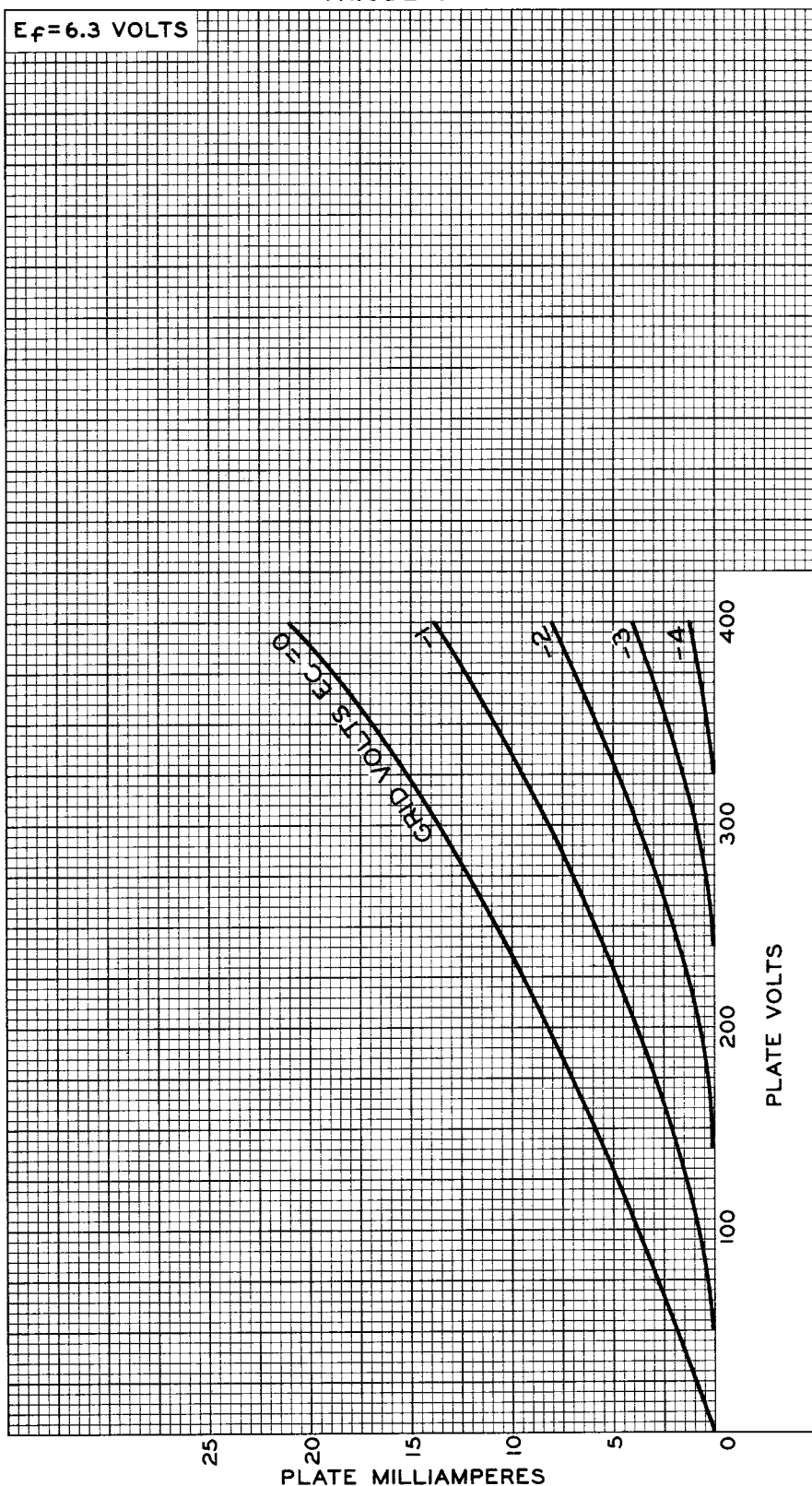
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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

$E_f = 6.3$ VOLTS



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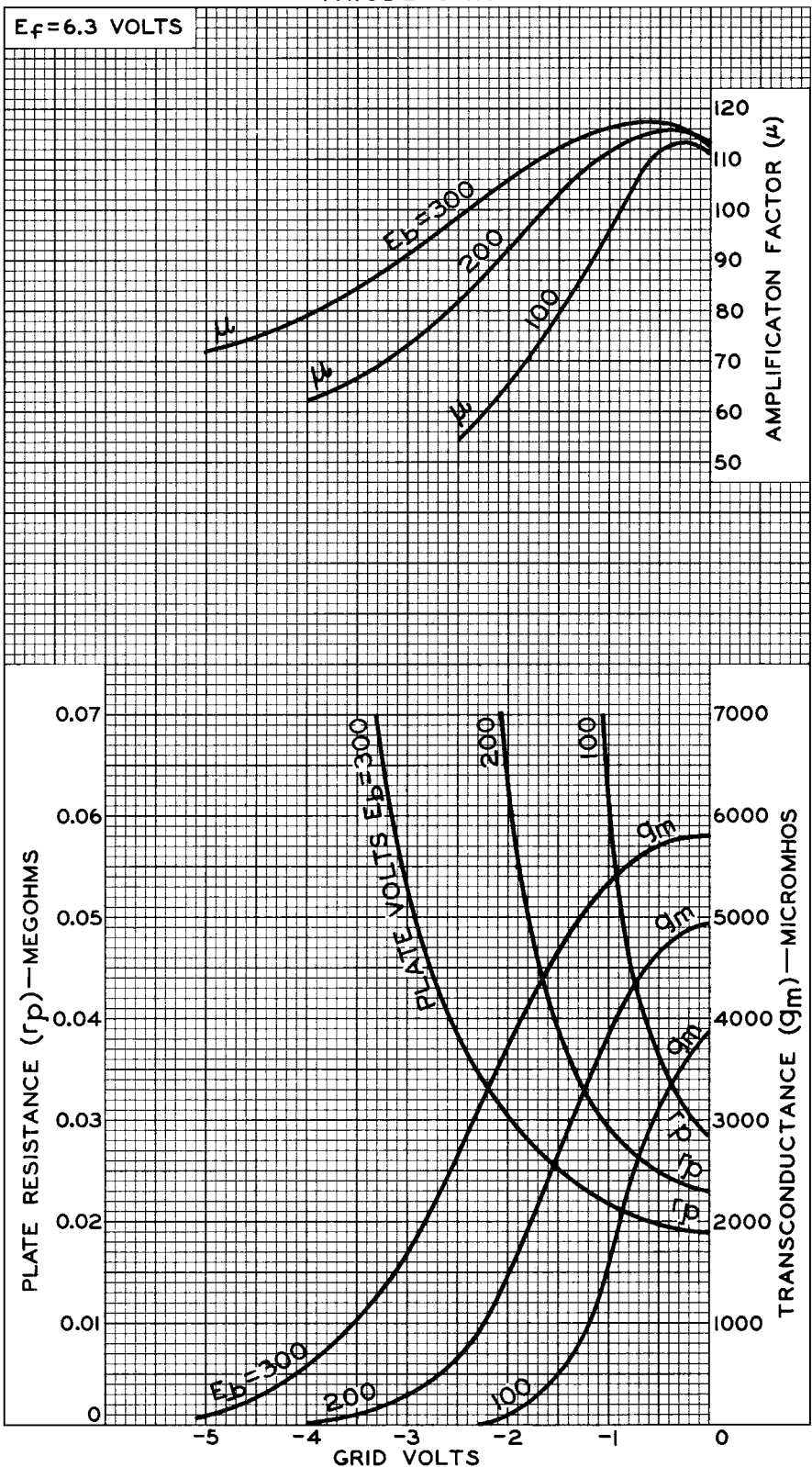


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AVERAGE CHARACTERISTICS TRIODE UNIT

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$E_f = 6.3$ VOLTS



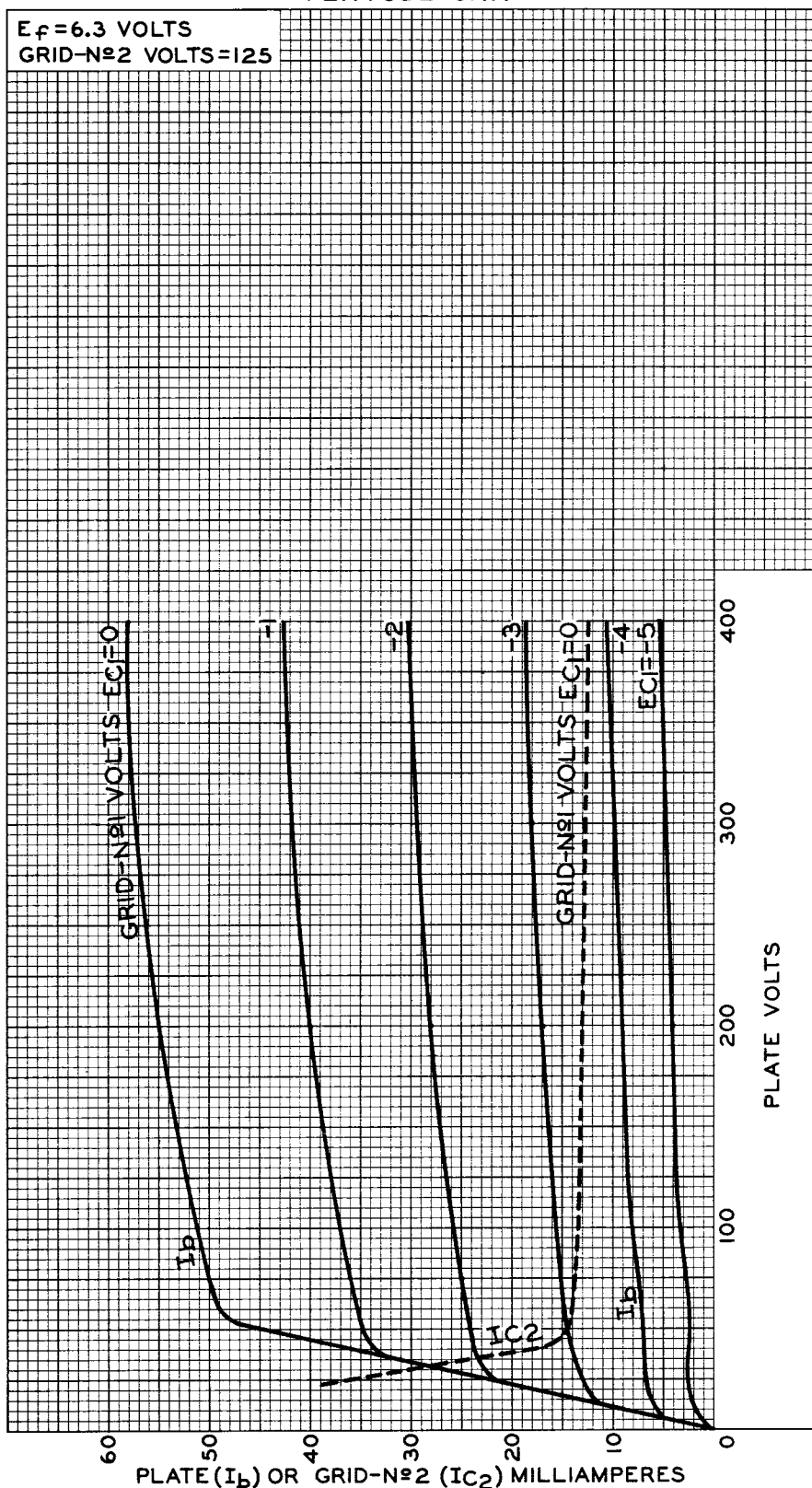
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AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
GRID-N $\approx$ 2 VOLTS = 125



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AVERAGE CHARACTERISTICS PENTODE UNIT

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

