

High-Mu Triode— Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) $6.3 \pm 10\%$ volts

Current at 6.3 volts. 0.75 amp

Direct Interelectrode Capacitances:▲

Triode Unit:

Grid to plate 3.5 μf

Grid to cathode, pentode
cathode & grid No.3 &
internal shield,
and heater. 2.8 μf

Plate to cathode, pentode
cathode & grid No.3 &
internal shield,
and heater. 2.6 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. 10 μf

Plate to cathode & internal
shield & grid No.3, grid
No.2, and heater. 4.2 μf

Triode grid to pentode plate. 0.015 max. μf

Characteristics, Class A₁ Amplifier:

	Triode Unit	Pentode Unit	
Plate Supply Voltage.	200	45	200 volts
Grid-No.2 Supply Voltage.	—	125	125 volts
Grid-No.1 Voltage	-2	0	— volts
Cathode Resistor.	—	—	68 ohms
Amplification Factor.	70	—	—
Plate Resistance (Approx.).	17500	—	75000 ohms
Transconductance.	4000	—	12500 μmhos
Plate Current	4	40●	25 ma
Grid-No.2 Current	—	15●	7 ma
Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 100$	—	—	-9 volts
Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 20$	-6	—	— volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length 2-3/8"



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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 9DX

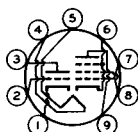
Pin 1 - Triode
 Cathode

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 <i>Grid-No.2 Input</i>	

Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID)
 VOLTAGE:

Positive-bias value. 0 max. 0 max. volts

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

PLATE DISSIPATION. 1 max. 5 max. watts

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

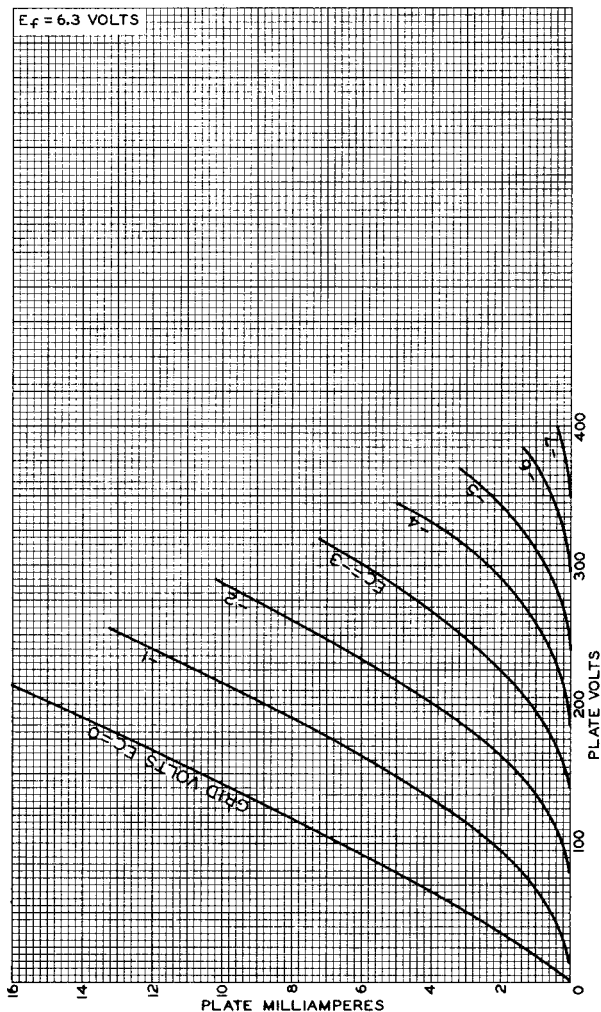


- ▲ Without external shield.
- This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- ★ The dc component must not exceed 100 volts.



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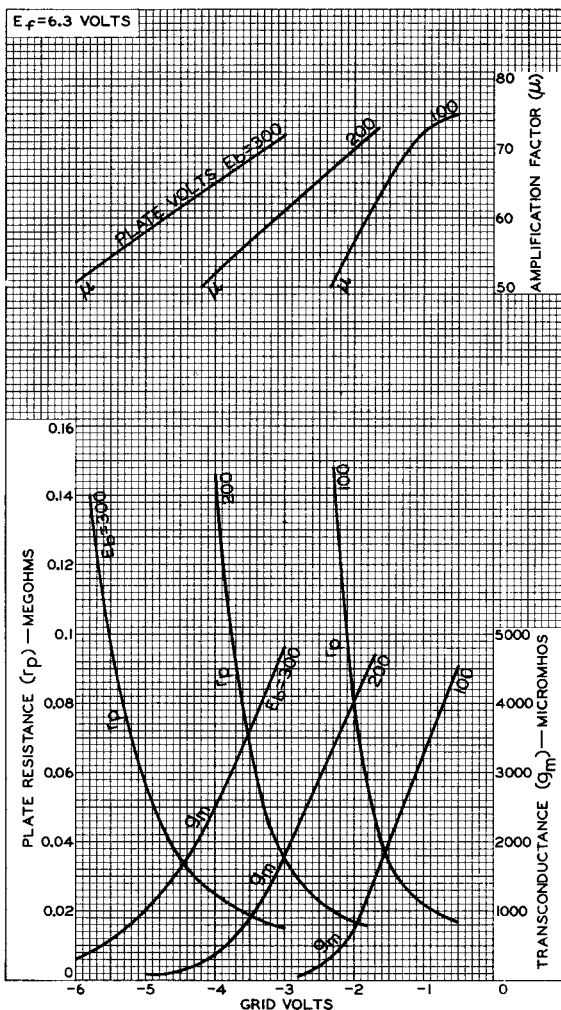
AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-8644



AVERAGE CHARACTERISTICS Triode Unit

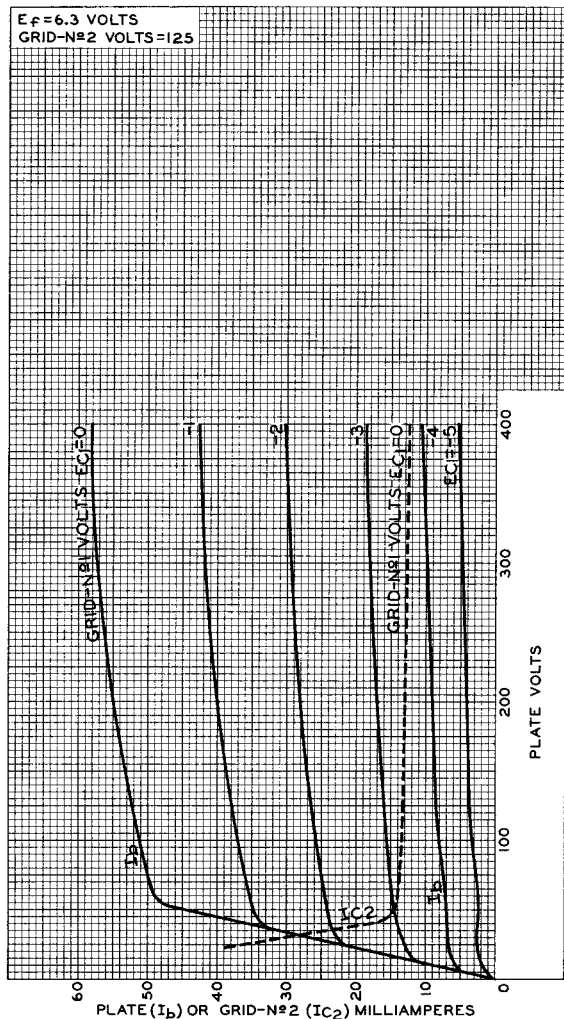


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AVERAGE CHARACTERISTICS Pentode Unit

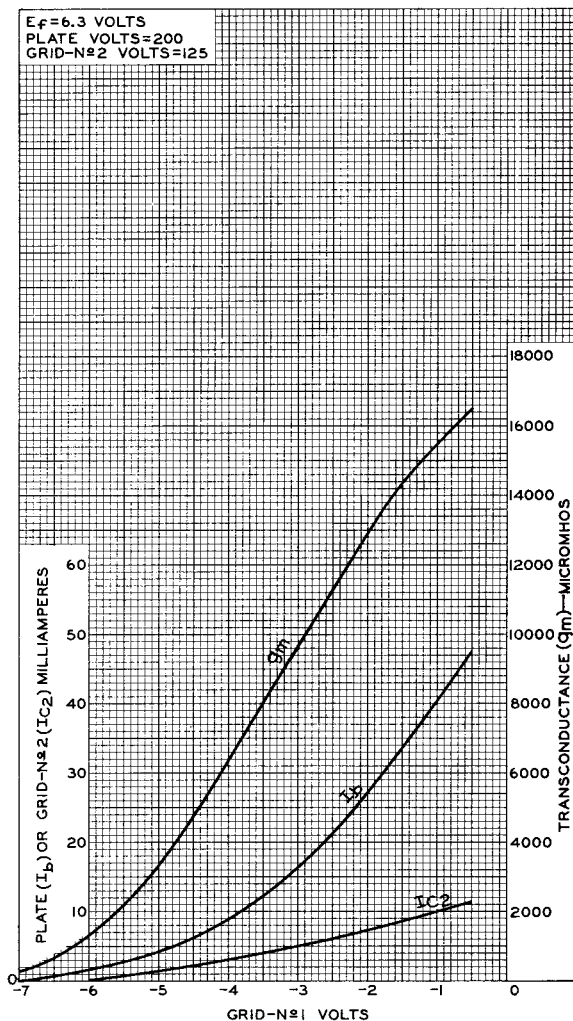


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AVERAGE CHARACTERISTICS

Pentode Unit



92CM-9905RI

