

High-Mu Triode— Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3 ± 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 μa = 100.	—	—	-9 volts
Grid-No.1 Voltage (Approx.) for plate μa = 20	-6	—	— volts

Mechanical:

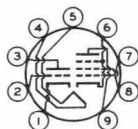
Operating Position.	Any
Maximum Overall Length.	2-5/8"
Maximum Seated Length	2-3/8"



6HF8

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 Grid-No.2 Input	
<i>Rating Chart at front of Receiving Tube Section</i>			
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	
<i>Rating Chart at front of Receiving Tube Section</i>			
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

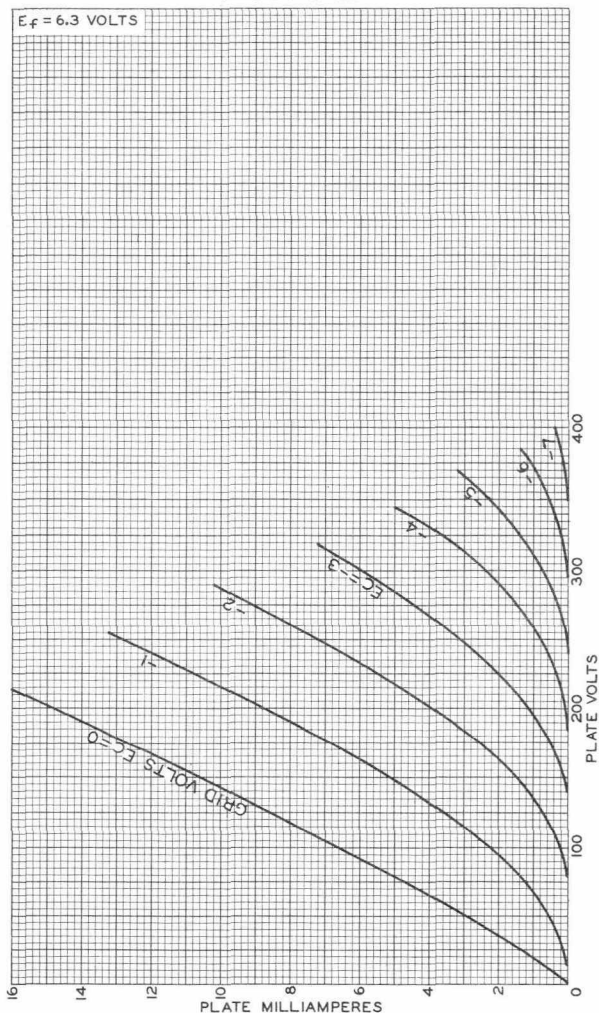


- ▲ Without external shield.
- This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- ★ The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS Triode Unit

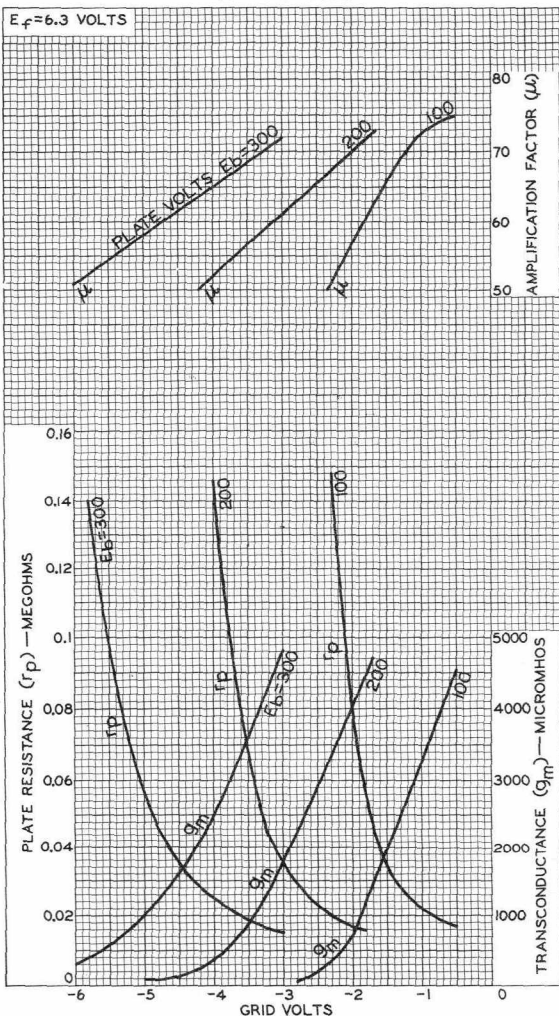


92CM-8644



AVERAGE CHARACTERISTICS

Triode Unit



92CM-10874



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Electron Tube Division

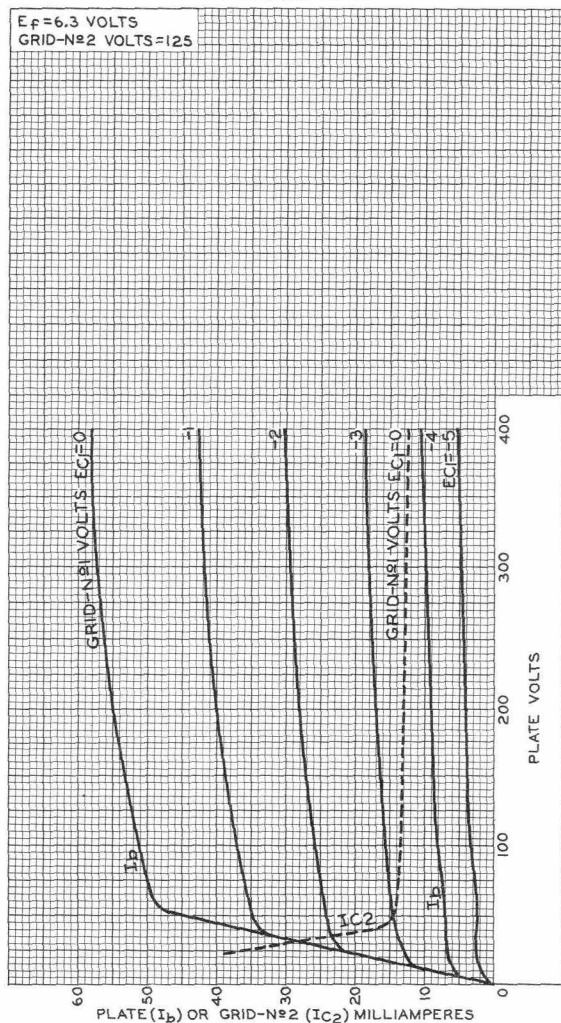
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DATA 3
3-61

AVERAGE CHARACTERISTICS

Pentode Unit

E_f = 6.3 VOLTS
GRID-N^o2 VOLTS = 125



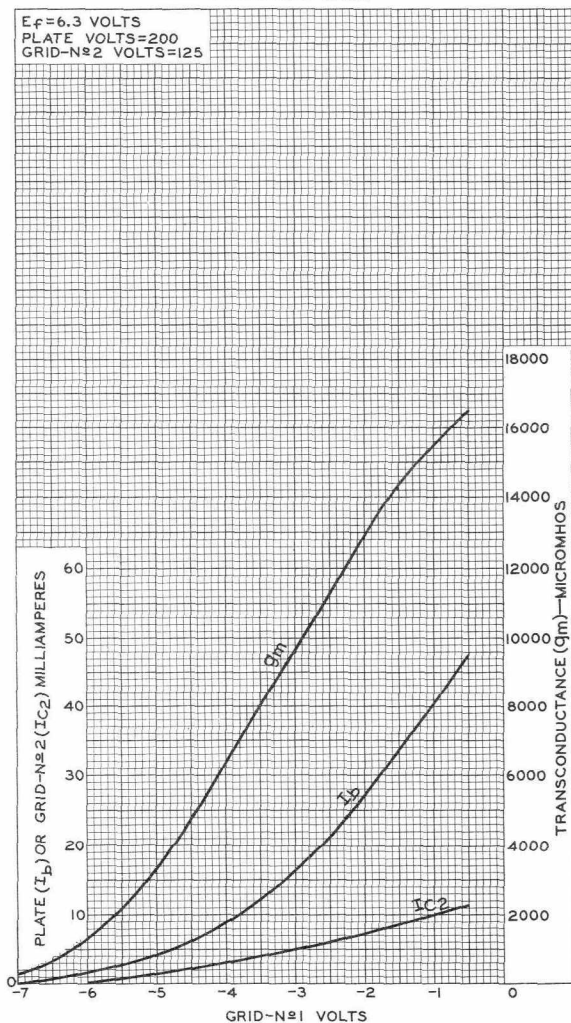
92CM-9906



AVERAGE CHARACTERISTICS

Pentode Unit

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



92CM-9905RI



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DATA 4
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