

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:^a

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:

	Triode Unit	Pentode Unit	
Plate Supply Voltage	250	60 200	volts
Grid-No.2 Supply Voltage	—	150 150	volts
Grid-No.1 Voltage	-2	0 —	volts
Cathode Resistor	—	— 100	ohms
Amplification Factor	100	— —	
Plate Resistance (Approx.)	37000	— 60000	ohms
Transconductance	2700	— 11500	μmhos
Plate Current	2	55 ^b 25	ma
Grid-No.2 Current	—	18 ^b 5.5	ma
Grid-No.1 Voltage (Approx.) for plate μa = 100	—	— -10	volts
Grid Voltage (Approx.) for plate μa = 20	-5	— —	volts

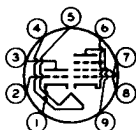
Mechanical:

Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2



6GN8

- Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9DX
- | | |
|---------------------------|------------------------------|
| Pin 1 - Triode
Cathode | Pin 6 - Pentode
Cathode, |
| Pin 2 - Triode
Grid | Grid No.3, |
| Pin 3 - Triode
Plate | Internal
Shield |
| Pin 4 - Heater | Pin 7 - Pentode
Grid No.1 |
| Pin 5 - Heater | Pin 8 - Pentode
Grid No.2 |
| | Pin 9 - Pentode
Plate |



AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

	<i>Triode Unit</i>	<i>Pentode Unit</i>	
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
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 <i>Grid-No.2 Input</i>	

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 ^c max.	200 ^c max.	volts

Maximum Circuit Values:

	<i>Triode Unit</i>	<i>Pentode Unit</i>	
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

^a Without external shield.

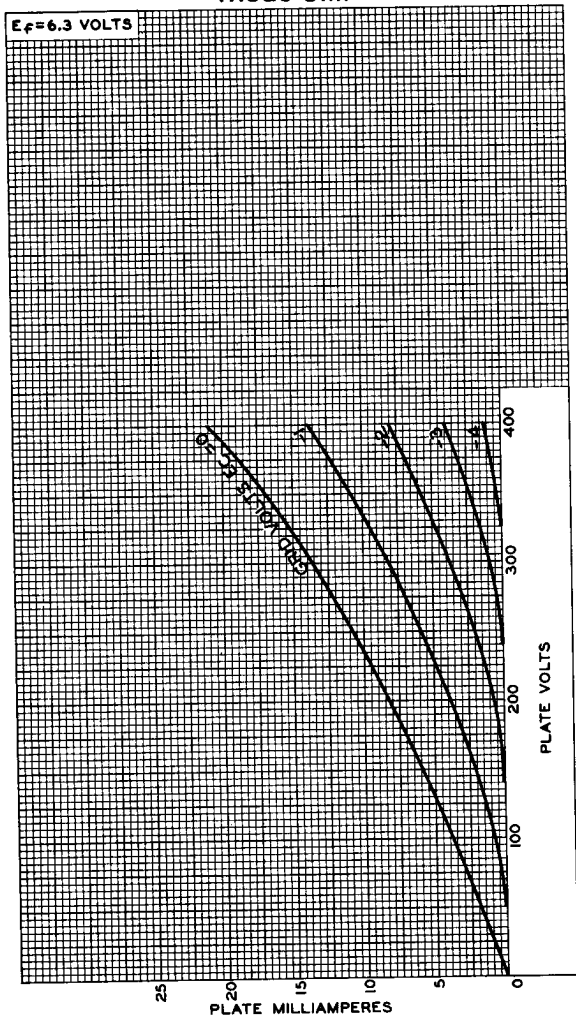
^b This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^c The dc component must not exceed 100 volts.



AVERAGE PLATE CHARACTERISTICS

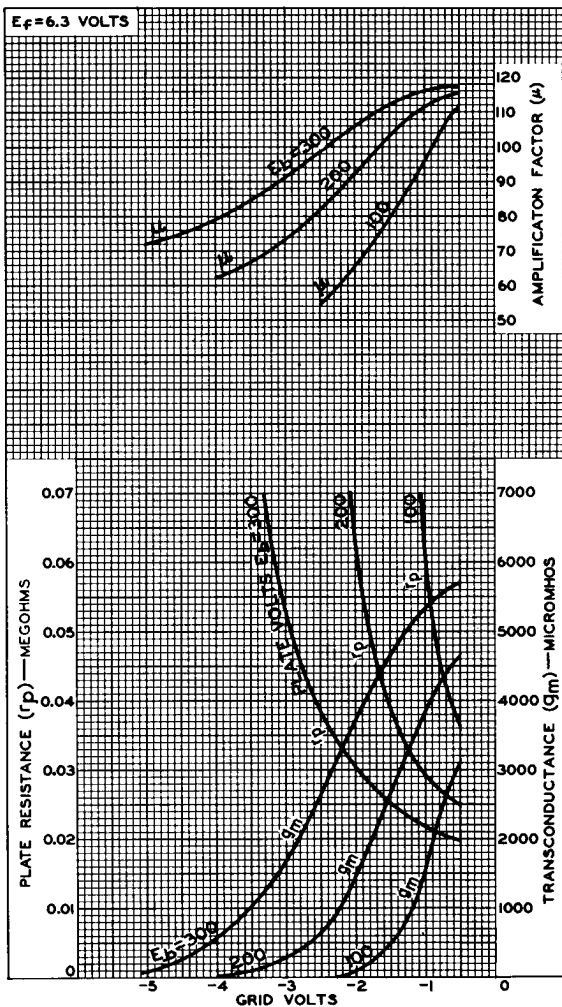
Triode Unit



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AVERAGE CHARACTERISTICS Triode Unit

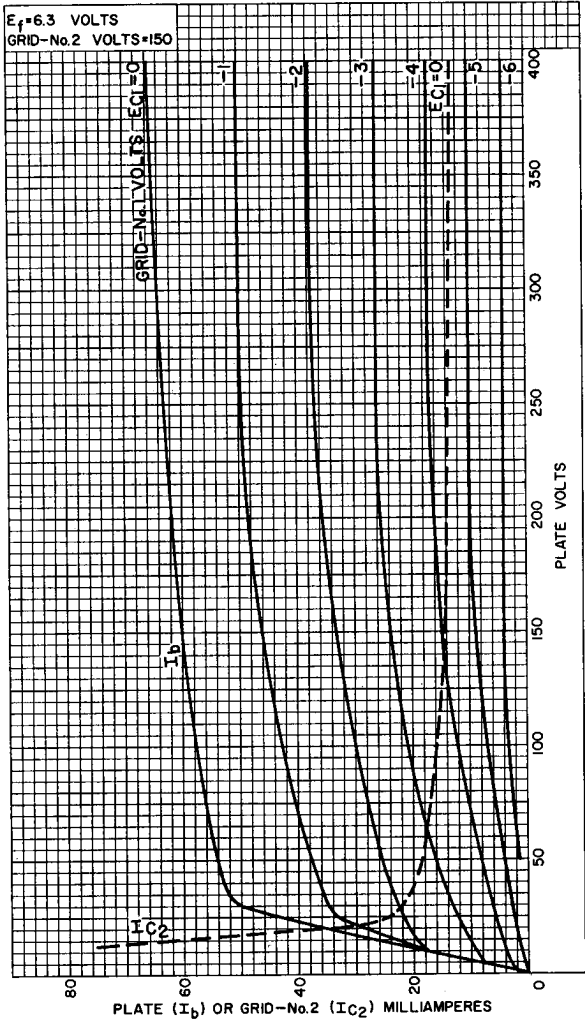


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AVERAGE CHARACTERISTICS

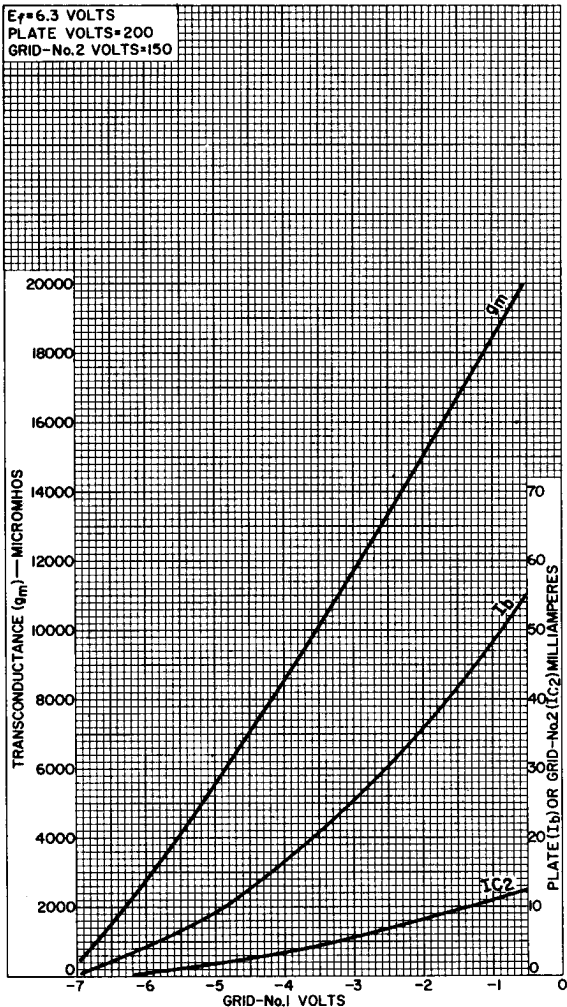
Pentode Unit



92CM-11021



AVERAGE CHARACTERISTICS Pentode Unit



92CM-11022

