

Sharp-Cutoff Twin Pentode

With Common Cathode, Grid No.1, and Grid No.2

9-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	4.2	volts
Current.	0.45 ± 6%	amp
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances:^a

Grid No.3 to plate (Each unit)	2	μf
Grid No.1 to all other electrodes.	6	μf
Grid No.3 to all other electrodes (Each unit).	3.8	μf
Plate to all other electrodes (Each unit).	3.2	μf
Grid No.3 (Unit No.1) to grid No.3 (Unit No.2).	0.015 max.	μf

Characteristics, Class A₁ Amplifier:

With both units operating

Plate Voltage (Each unit).	100	100	volts
Grid-No.3 Voltage (Each unit).	-10	0	volts
Grid-No.2 Voltage.	67.5	67.5	volts
Grid-No.1 Voltage.	b	b	volts
Plate Current (Each unit).	-	2	ma
Grid-No.2 Current.	6	3.6	ma
Cathode Current.	6.1	7.7	ma

With one unit operating^c

Plate Voltage.	100	100	volts
Grid-No.3 Voltage.	0	0	volts
Grid-No.2 Voltage.	67.5	67.5	volts
Grid-No.1 Voltage.	0	b	volts
Grid-No.3-to-Plate Transconductance.	-	270	μmhos
Grid-No.1-to-Plate Transconductance.	1200	-	μmhos
Plate Current.	-	2	ma
Grid-No.3 Voltage (Approx.) for plate $\mu_a = 100$	-	-3.7	volts
Grid-No.1 Voltage (Approx.) for plate $\mu_a = 100$	-	-2	volts

Mechanical:

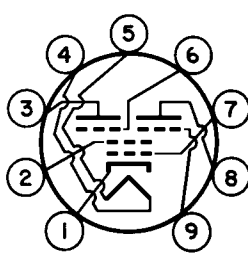
Operating Position		Any
Maximum Overall Length		2-5/8"
Maximum Seated Length.		2-3/8"
Length, Base Seat to Bulb Top (Excluding tip).	2" ± 3/32"	
Diameter	0.750" to 0.875"	
Dimensional Outline.	See <i>General Section</i>	
Bulb	T6-1/2	



4GS8/4BU8

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

Pin 1 - Cathode,
 Internal
 Shield
 Pin 2 - Grid No.2
 Pin 3 - Plate of
 Unit No.2
 Pin 4 - Heater
 Pin 5 - Heater



Pin 6 - Grid No.3 of
 Unit No.2
 Pin 7 - Grid No.1
 Pin 8 - Plate of
 Unit No.1
 Pin 9 - Grid No.3 of
 Unit No.1

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE (Each unit).	300	max.	volts
GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE (Each unit):			
Peak positive value.	50	max.	volts
DC negative value.	50	max.	volts
DC positive value.	3	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE.	150	max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Negative-bias value.	50	max.	volts
CATHODE CURRENT.	12	max.	ma
GRID-No.2 INPUT.	0.75	max.	watt
PLATE DISSIPATION (Each unit).	1.1	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^d	max.	volts

Maximum Circuit Values:

Grid-No.3-Circuit Resistance (Each unit)	0.5	max.	megohm
Grid-No.1-Circuit Resistance	0.5	max.	megohm

^a Without external shield.

^b Adjusted to give a dc grid-No.1 current of 100 microamperes.

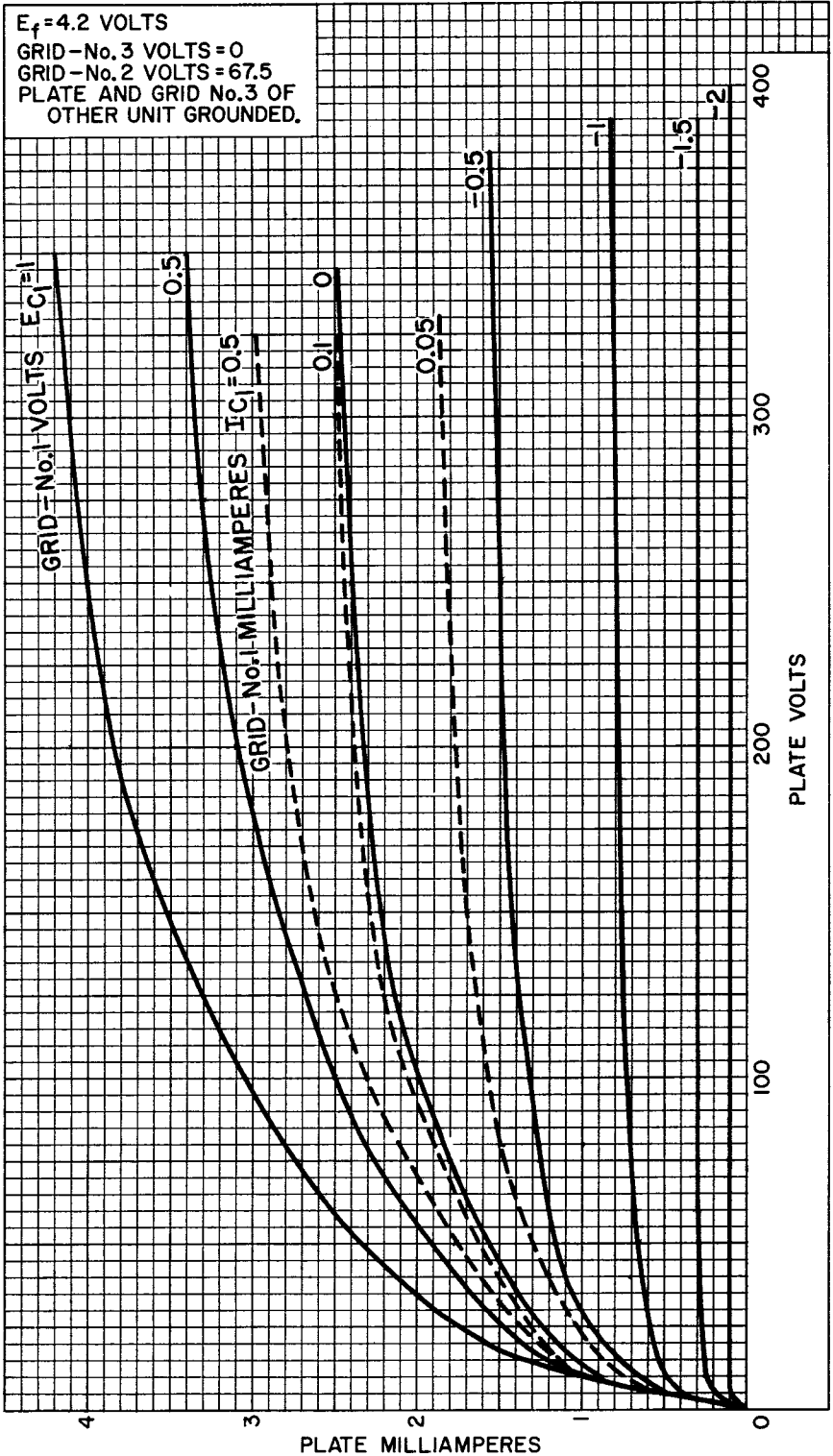
^c With plate and grid No.3 of the other unit connected to ground.

^d The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS Each Unit



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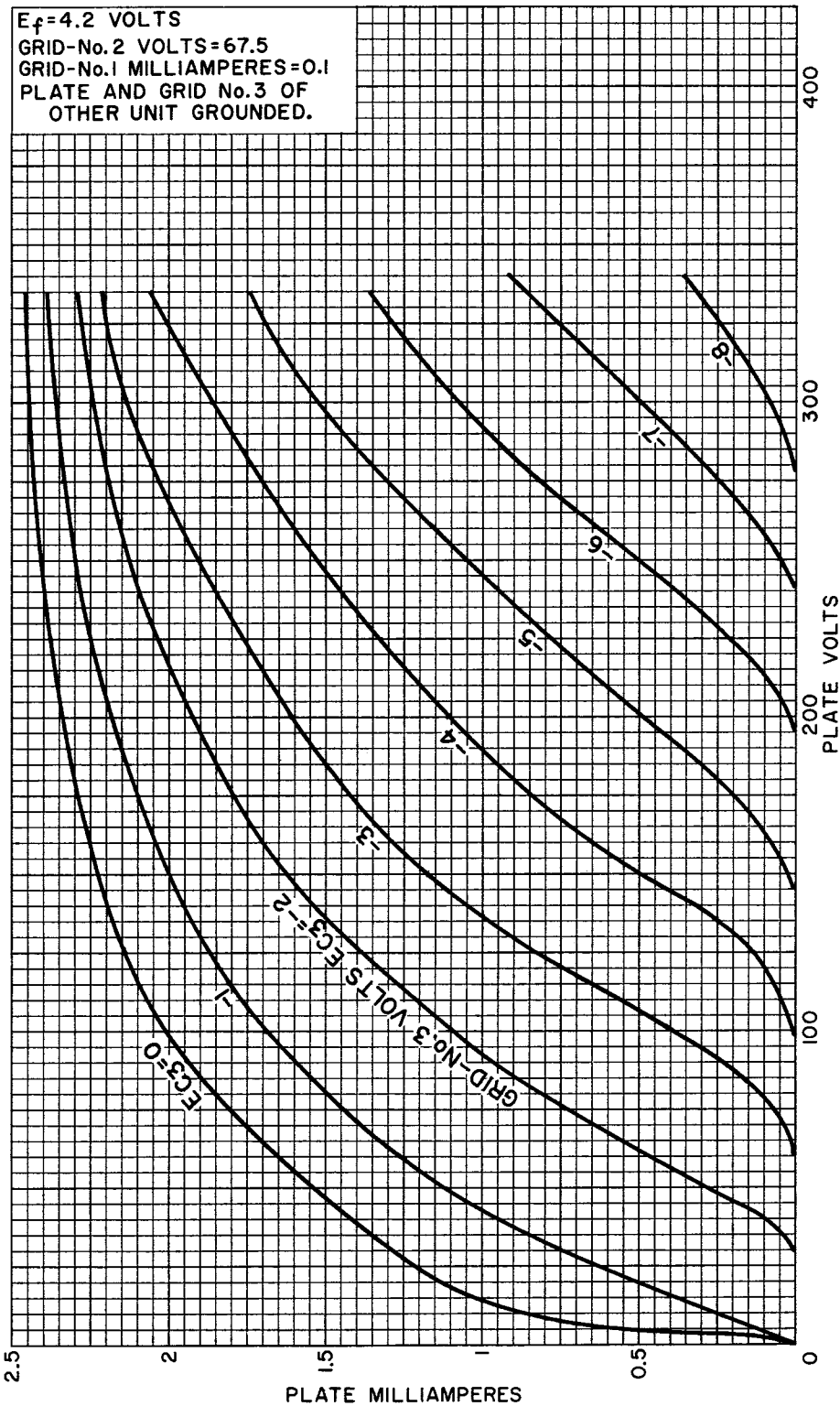


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DATA 2
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AVERAGE PLATE CHARACTERISTICS Each Unit

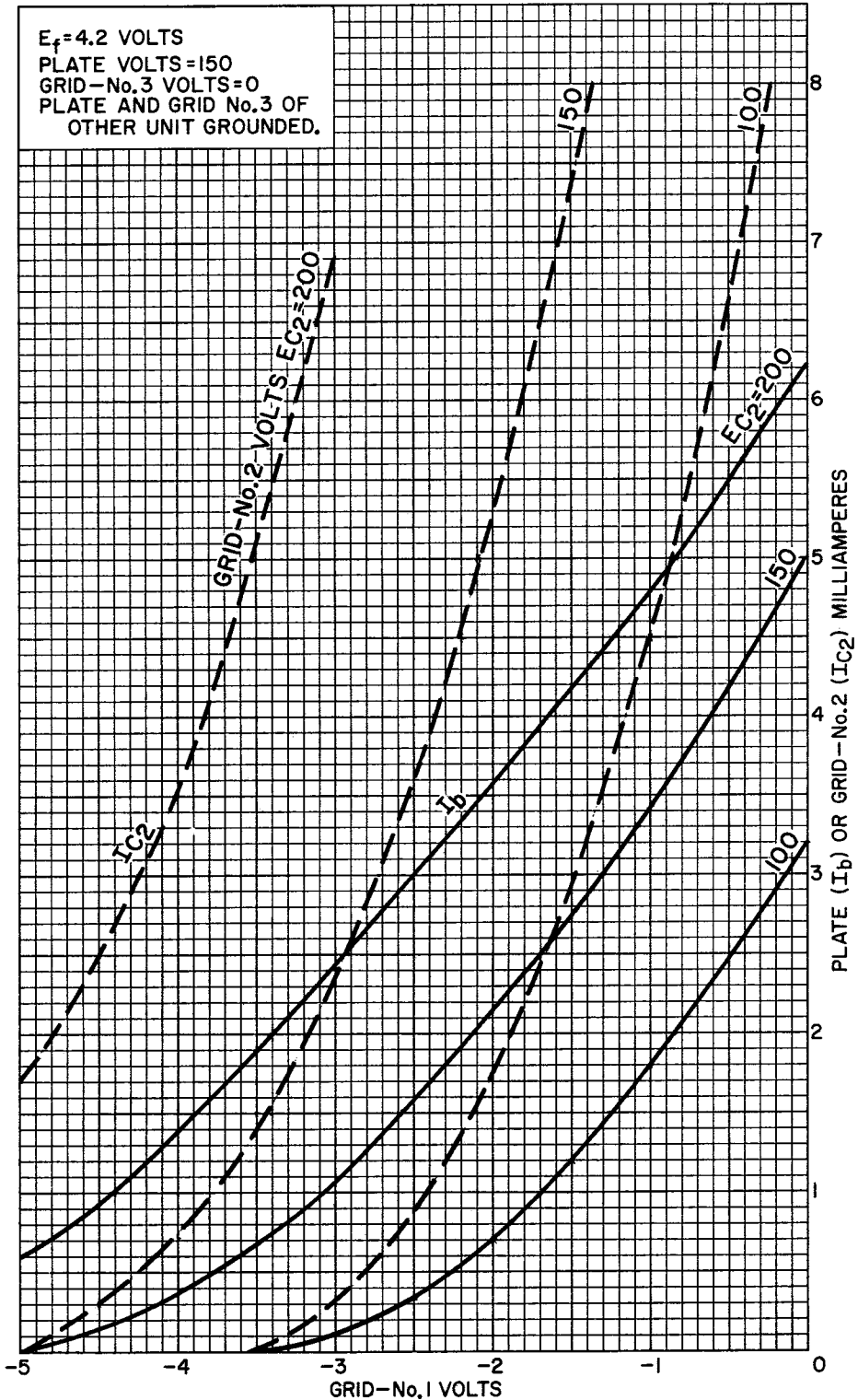


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AVERAGE CHARACTERISTICS Each Unit



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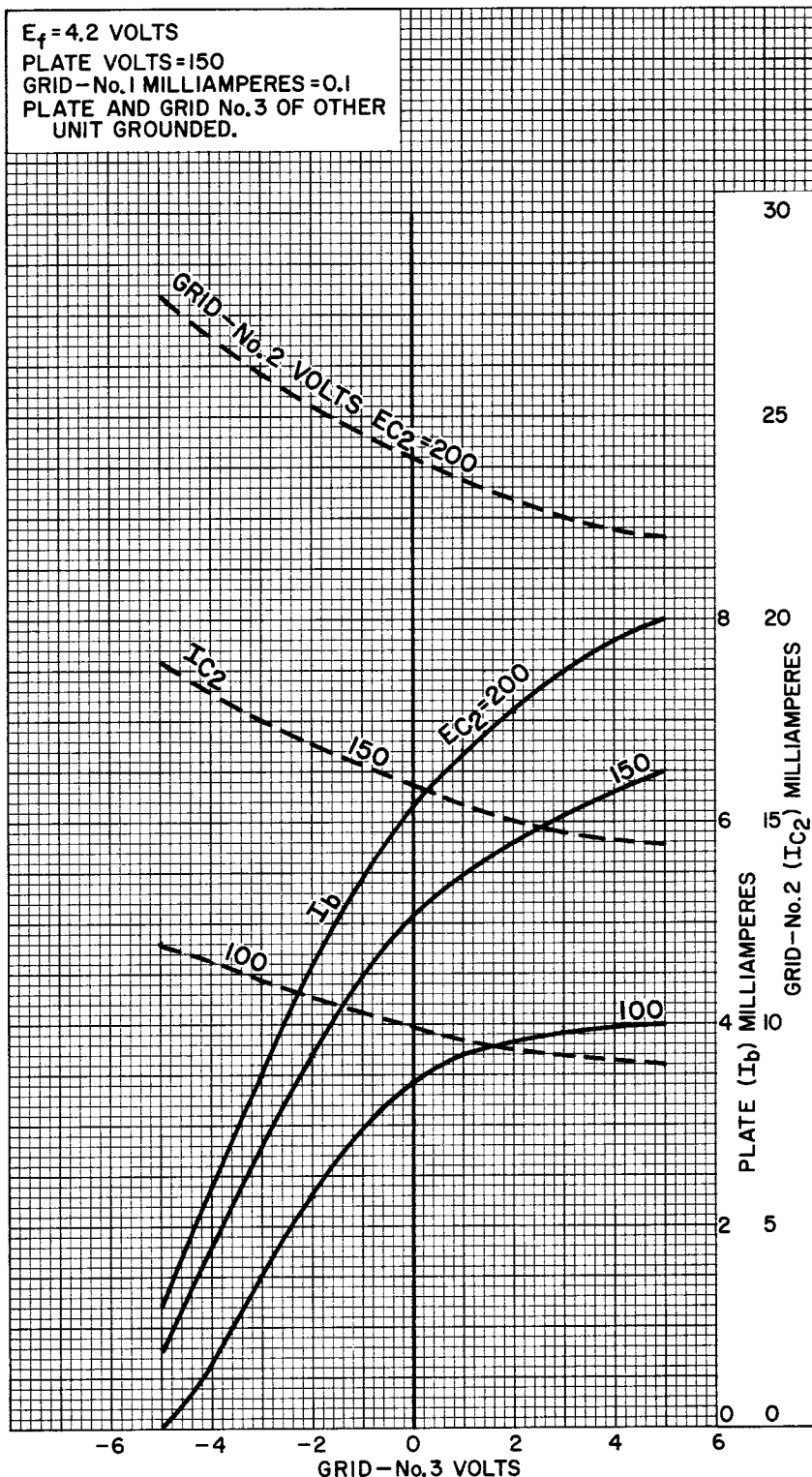
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DATA 3
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AVERAGE CHARACTERISTICS Each Unit



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