

6GC5

Power Pentode

NEONOVAL TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 1.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 200 max. volts

Heater positive with respect to cathode 200^a max. volts

Direct Interelectrode Capacitances

(Approx.):^b

Grid No.1 to plate 0.9 μf

Grid No.1 to cathode & grid No.3, grid No.2, and heater 18.0 μf

Plate to cathode & grid No.3, grid No.2 and heater 7.0 μf

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 3.230"

Maximum Seated Length 2.920"

Length, Base Seat to Bulb Top (Excluding tip) . . 2.370" to 2.610"

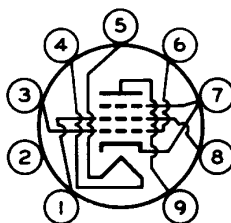
Diameter 1.062" to 1.188"

Bulb T9

Base Large-Button Neonoval 9-Pin (JEDEC No.E9-68)

Basing Designation for BOTTOM VIEW 9EU

Pin 1-Grid No.2
Pin 2-No Internal
Connection
Pin 3-Grid No.1
Pin 4-Heater
Pin 5-Heater



Pin 6-Grid No.1
Pin 7-Cathode,
Grid No.3
Pin 8-Grid No.2
Pin 9-Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, *Design-Maximum Values*:

PLATE VOLTAGE 220 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE 140 max. volts

GRID-No.2 INPUT 1.4 max. watts

PLATE DISSIPATION 12 max. watts



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Typical Operation and Characteristics:

	<i>Fixed Bias</i>	<i>Cathode Bias</i>	
Plate Supply Voltage.	110	200	volts
Grid-No.2 Supply Voltage.	110	125	volts
Grid-No.1 (Control-Grid) Voltage. .	-7.5	-	volts
Cathode Resistor.	-	180	ohms
Peak AF Grid-No.1 Voltage	7.5	8.5	volts
Zero-Signal Plate Current	49	46	ma
Max.-Signal Plate Current	50	47	ma
Zero-Signal Grid-No.2 Current . . .	4	2.2	ma
Max.-Signal Grid-No.2 Current . . .	10	8.5	ma
Plate Resistance (Approx.).	13000	28000	ohms
Transconductance.	8000	8000	μ hos
Load Resistance	2000	4000	ohms
Total Harmonic Distortion	10	10	%
Max.-Signal Power Output.	2.1	3.8	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

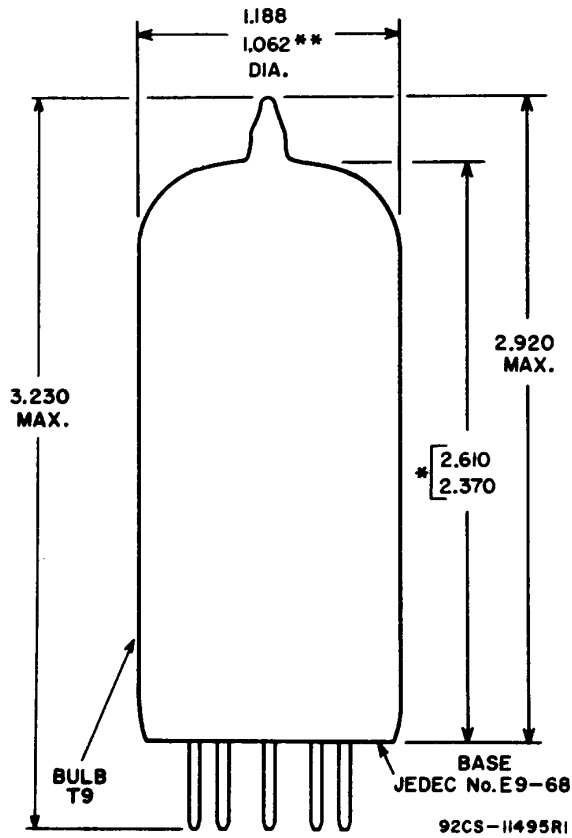
For fixed-bias operation.	0.1 max.	megohm
For cathode-bias operation.	0.5 max.	megohm

^a The dc component must not exceed 100 volts.

^b Without external shield.



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ALL DIMENSIONS IN INCHES

** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

* MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.

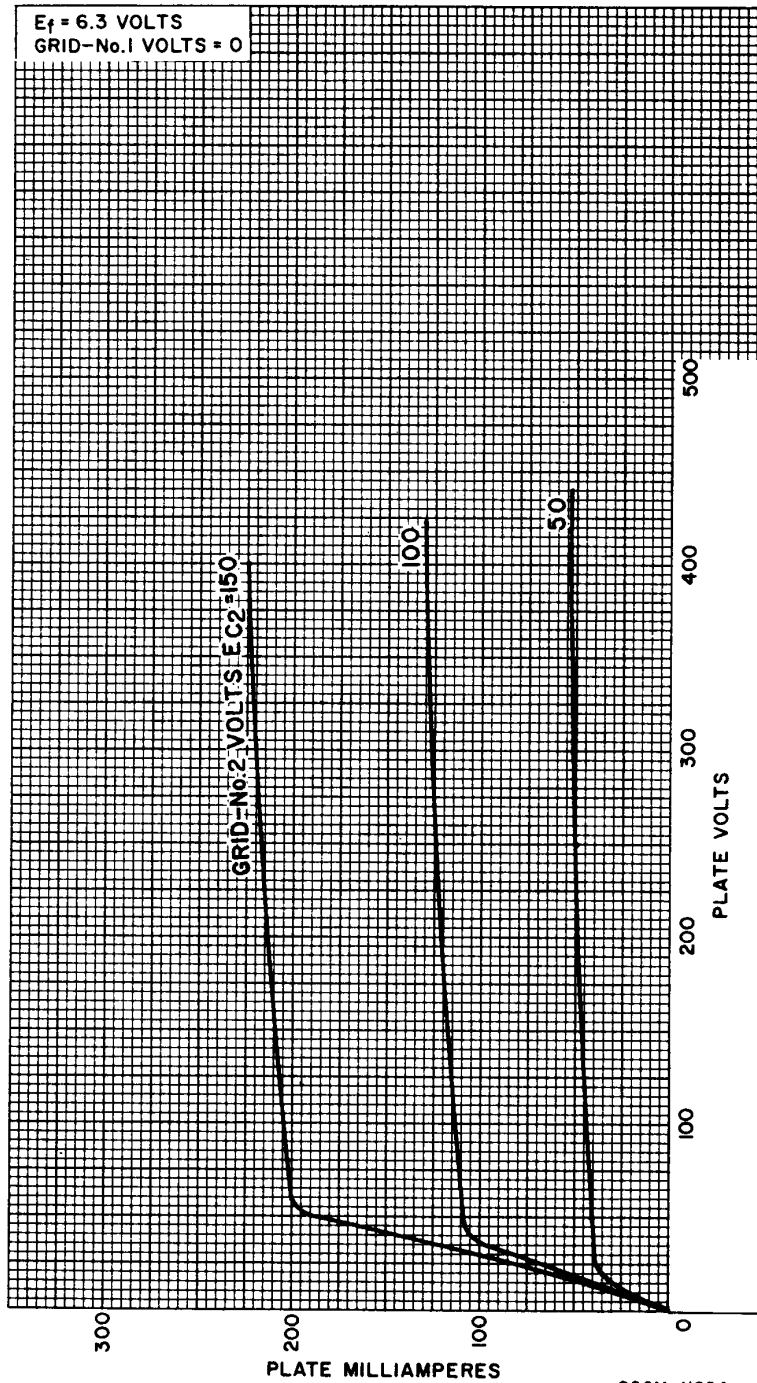


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AVERAGE PLATE CHARACTERISTICS



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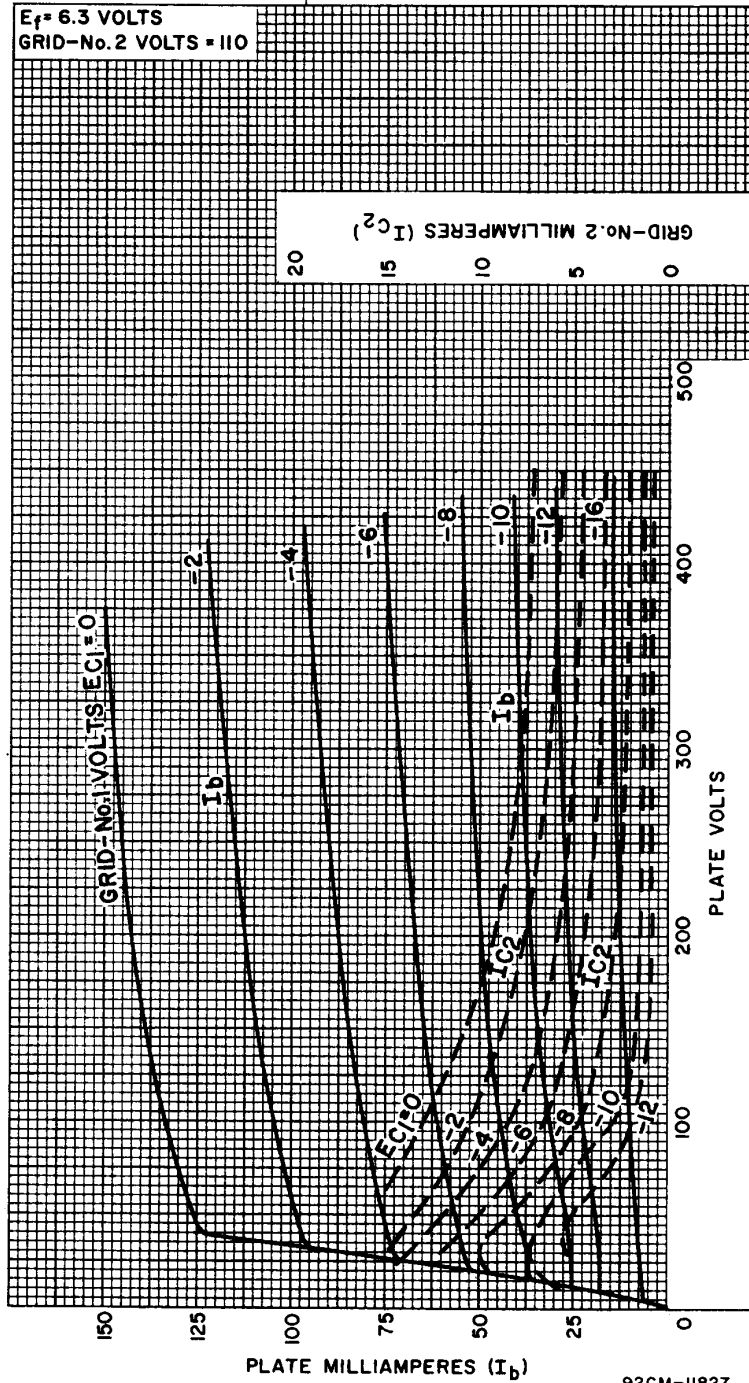
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AVERAGE CHARACTERISTICS

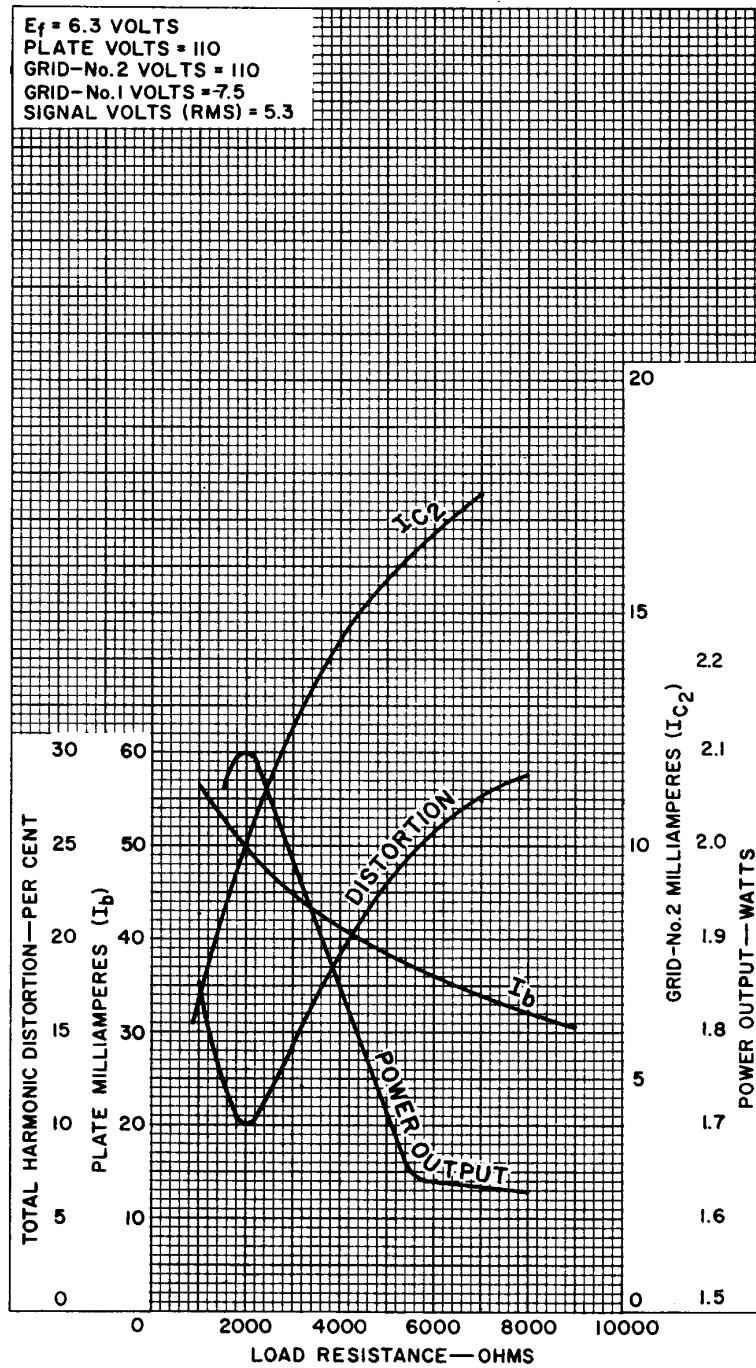


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OPERATION CHARACTERISTICS



92CM-11828

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