

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

(Approx.):^b

Grid No.1 to plate	0.9	μf
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Grid No.1 to cathode & grid No.3, grid No.2, and heater	18.0	μf
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Plate to cathode & grid No.3, grid No.2 and heater	7.0	μf
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Mechanical:

Operating Position	Any
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Type of Cathode	Coated Unipotential
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Maximum Overall Length	3.230"
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Maximum Seated Length	2.920"
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Length, Base Seat to Bulb Top (Excluding tip)	2.370" to 2.610"
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Diameter	1.062" to 1.188"
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Bulb	T9
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Base	Large-Button Neonoval 9-Pin (JEDEC No.E9-68)
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Basing Designation for BOTTOM VIEW	9EU
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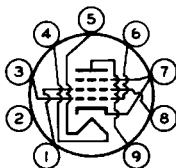
Pin 1 - Grid No.2

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 A₁Maximum Ratings, *Design-Maximum Values*:

PLATE VOLTAGE	220	max.	volts
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GRID-No.2 (SCREEN-GRID) VOLTAGE	140	max.	volts
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GRID-No.2 INPUT	1.4	max.	watts
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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

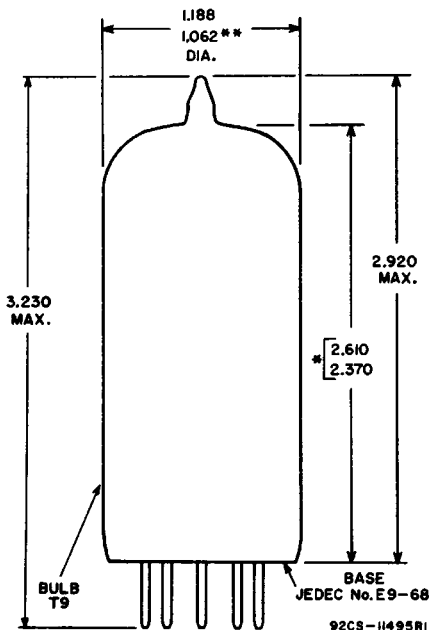
Maximum Circuit Values:

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.





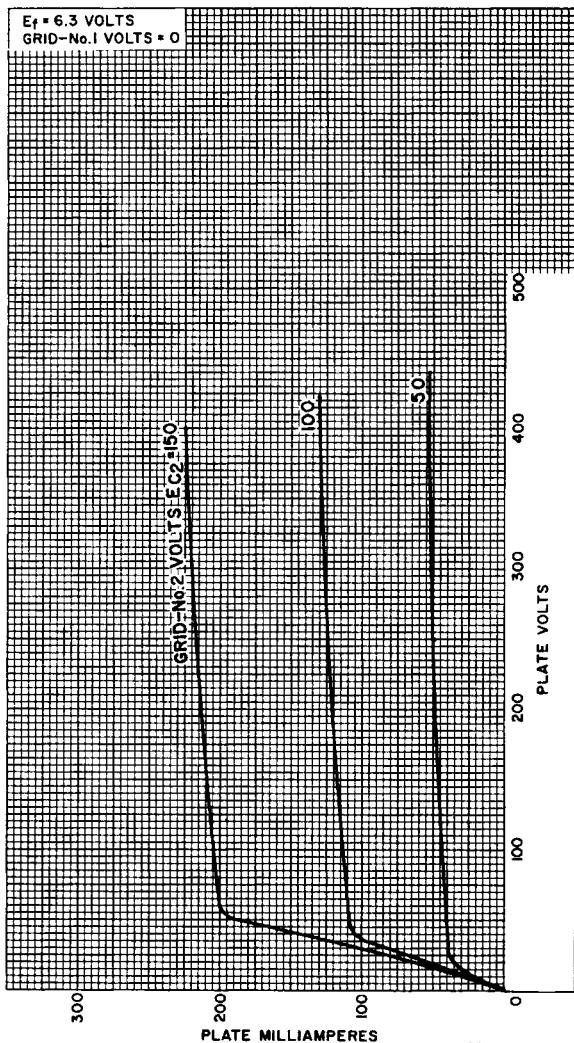
ALL DIMENSIONS IN INCHES

- ** 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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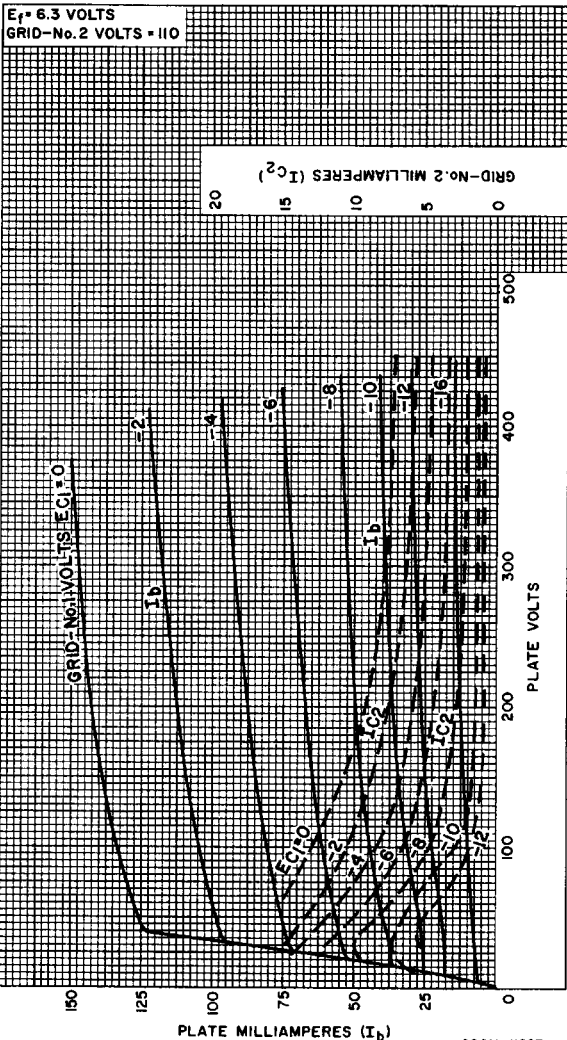
AVERAGE PLATE CHARACTERISTICS



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AVERAGE CHARACTERISTICS

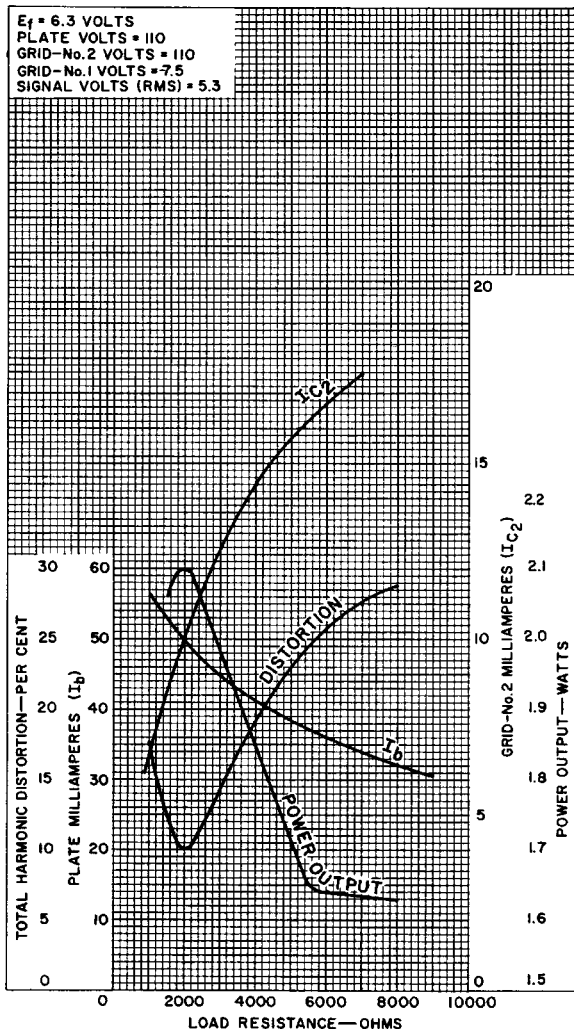


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OPERATION CHARACTERISTICS

$E_f = 6.3$ VOLTS
 PLATE VOLTS = 110
 GRID-NO.2 VOLTS = 110
 GRID-NO.1 VOLTS = -7.5
 SIGNAL VOLTS (RMS) = 5.3



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