



35B5

BEAM POWER AMPLIFIER

MINIATURE TYPE

35B5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 35 ac or dc volts

Current. 0.15 amp

Direct Interelectrode Capacitances (Approx.):^o

Grid No.1 to Plate 0.4 μ f

Input. 11 μ f

Output. 6.5 μ f

^o With no external shield.

Mechanical:

Mounting Position. Any

Maximum Overall Length 2-5/8"

Maximum Seated Length. 2-3/8"

Length from Base Seat to Bulb Top (excluding tip). 2" \pm 3/32"

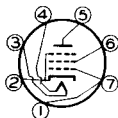
Maximum Diameter 3/4"

Bulb T-5-1/2

Base Miniature Button 7-Pin

Basing Designation for BOTTOM VIEW 7BZ

Pin 1-Grid No.1
Pin 2-Cathode,
Grid No.3
Pin 3-Heater



Pin 4-Heater
Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Grid No.1

AF POWER AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 117 max. volts

GRID-No.2 (SCREEN) VOLTAGE 117 max. volts

PLATE DISSIPATION. 4.5 max. watts

GRID-No.2 DISSIPATION. 1.0 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 150 max. volts

Heater positive with respect to cathode 150 max. volts

Typical Operation and Characteristics:

Plate Voltage. 110 volts

Grid-No.2 Voltage. 110 volts

Grid-No.1 (Control-Grid) Voltage -7.5 volts

Peak AF Grid-No.1 Voltage. 7.5 volts

Zero-Signal Plate Current. 40 ma.

Max.-Signal Plate Current. 41 ma.

Zero-Signal Grid-No.2 Current. 3 ma.

Max.-Signal Grid-No.2 Current. 7 ma.

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Transconductance	5800	. .	μ hos
Load Resistance.	2500	. .	ohms
Total Harmonic Distortion.	10	. .	%
Max.-Signal Power Output	1.5	. .	watts

Maximum Circuit Values (for maximum rated conditions):

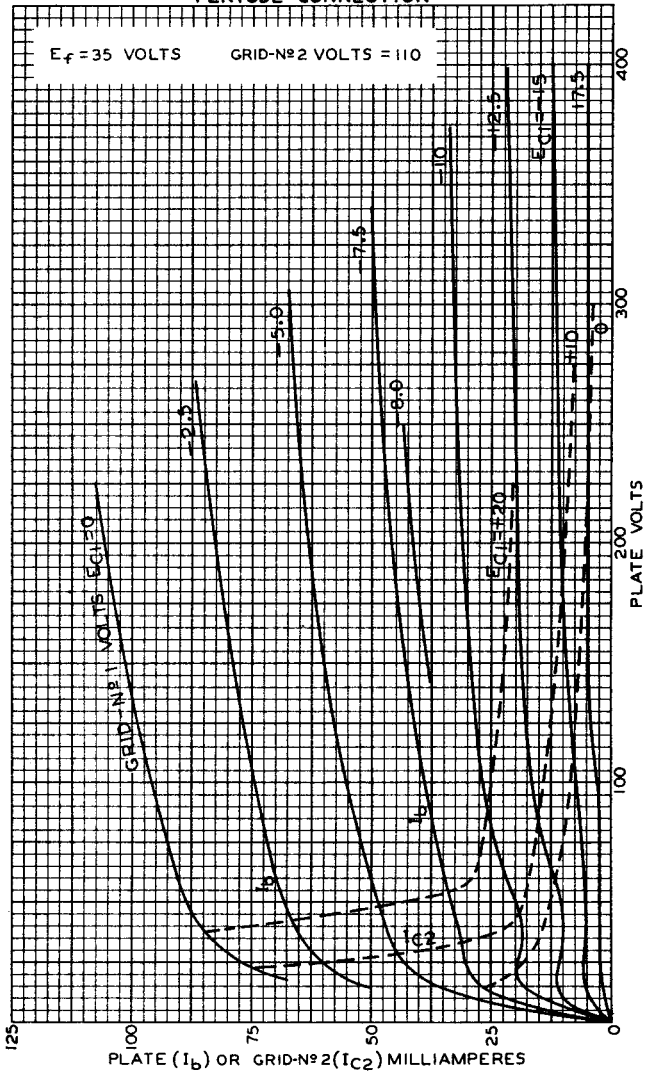
Grid-No.1-Circuit Res. {	fixed bias . .	0.1	. .	megohm
	cathode bias . .	0.5	. .	megohm



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AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



AUG. 15, 1941

TUBE DEPARTMENT

92CM - 6312R1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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OPERATION CHARACTERISTICS

$E_f = 35$ VOLTS
 PLATE VOLTS = 110
 GRID-№2 VOLTS = 110
 GRID-№1 VOLTS = -7.5
 SIGNAL VOLTS (RMS) = 5.3

