



35L6-GT

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BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 35 ac or dc volts

Current. 0.15 amp

Direct Interelectrode Capacitances (Approx.):⁰Grid No.1 to Plate 0.8 μf Input. 13 μf Output 9.5 μf ⁰ With no external shield.

Mechanical:

Mounting Position. Any

Maximum Overall Length 3-5/16"

Maximum Seated Length. 2-3/4"

Maximum Diameter 1-5/16"

Bulb T-9

Base Intermediate-Shell Octal 7-Pin

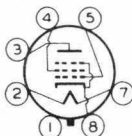
Basing Designation for BOTTOM VIEW G-7AC

Pin 1-No
Connection

Pin 2-Heater

Pin 3-Plate

Pin 4-Grid No.2



Pin 5-Grid No.1

Pin 7-Heater

Pin 8-Cathode,
Grid No.3AF POWER AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 200 max. volts

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

PLATE DISSIPATION. 8.5 max. watts

GRID-No.2 DISSIPATION. 1.0 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 90 max. volts

Heater positive with respect to cathode 90 max. volts

Typical Operation and Characteristics:

Plate Voltage. 110 200 . . volts

Grid-No.2 Voltage 110 110 . . volts

Grid-No.1 (Control-Grid) Voltage . -7.5 -8 . . volts

Peak AF Grid-No.1 Voltage. 7.5 8 . . volts

Zero-Signal Plate Current. 40 41 . . ma.

Max.-Signal Plate Current. 41 44 . . ma.

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

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

Plate Resistance (Approx.) 14000 40000 . . ohms

Transconductance 5800 5900 . . μmhos

Load Resistance. 2500 4500 . . ohms

Total Harmonic Distortion. 10 10 . . %

Max.-Sig. Power Output 1.5 3.3 . . watts

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Maximum Circuit Values (for maximum rated conditions):

Grid-No. 1-Circuit Resistance:

For fixed bias	0.1 . . . megohm
For cathode bias	0.5 . . . megohm

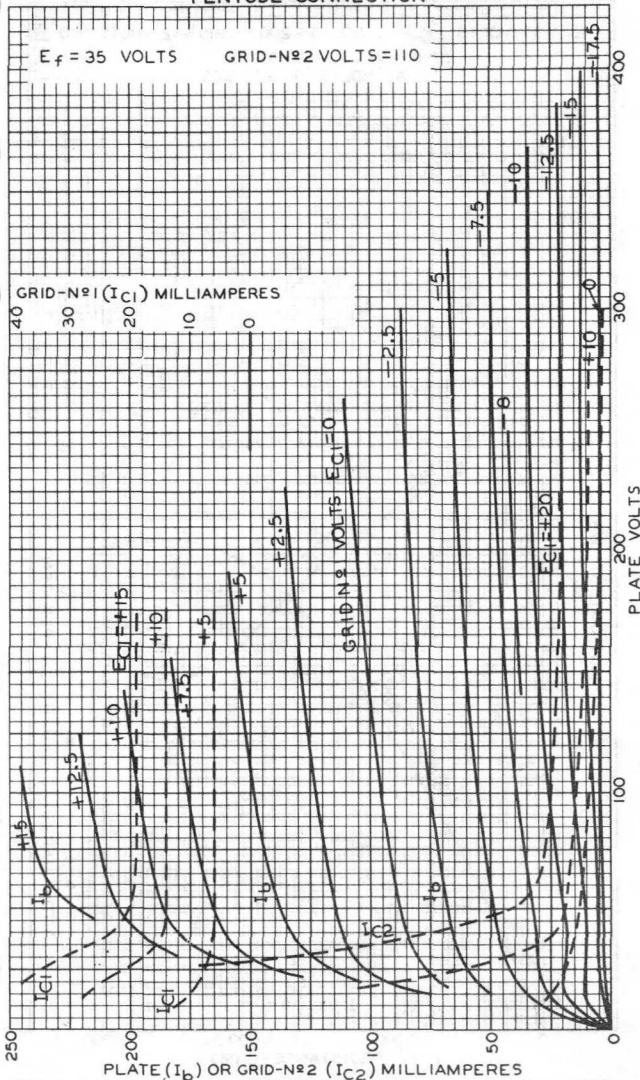
Curves shown under Type 35B5 are also applicable
to the 35L6-GT.



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AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



AUG. 11, 1941

TUBE DEPARTMENT

92CM-6309

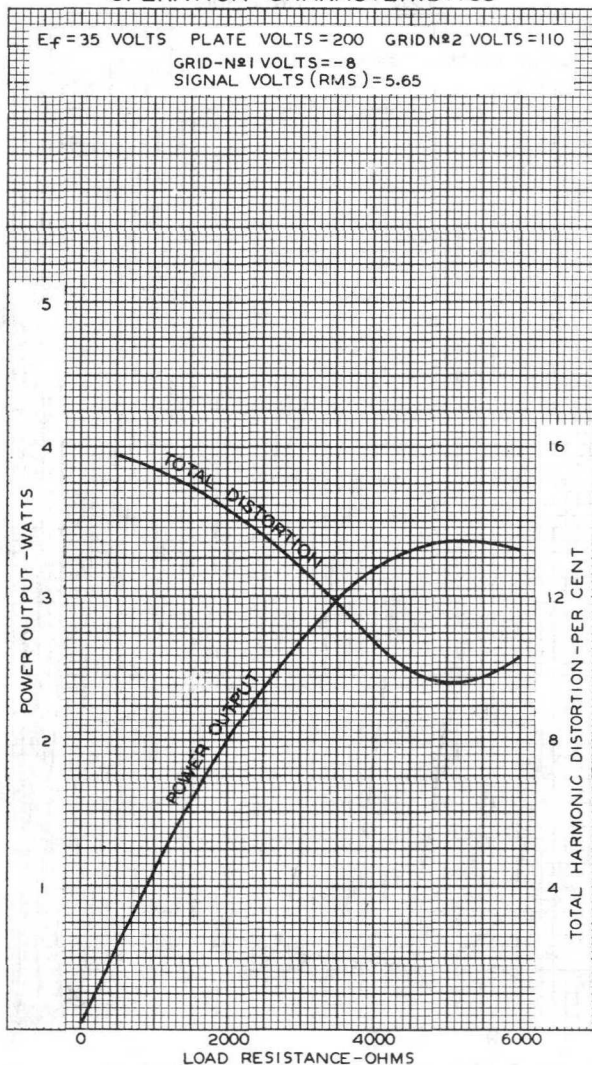
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

35L6-GT



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OPERATION CHARACTERISTICS



AUG. 21, 1941

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6315



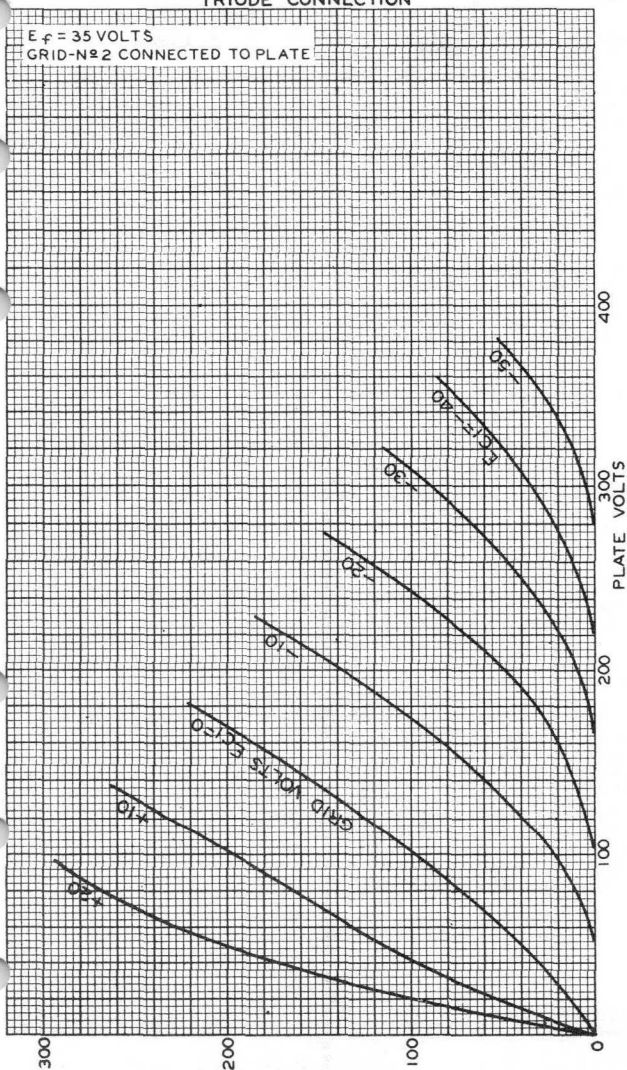
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AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION

$E_f = 35$ VOLTS
GRID-№2 CONNECTED TO PLATE



AUG. 6, 1941

PLATE MILLIAMPERES
TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6307RI

