



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.):^o

Grid No.1 to Plate 0.8 μf
Input 13 μf
Output 9.5 μf

^o With no external shield.

Mechanical:

Mounting Position Any

Maximum Overall Length 3-5/16"

Maximum Seated Length 2-3/4"

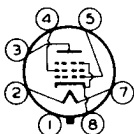
Maximum Diameter 1-5/16"

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.3

AF 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

JUNE 20, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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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

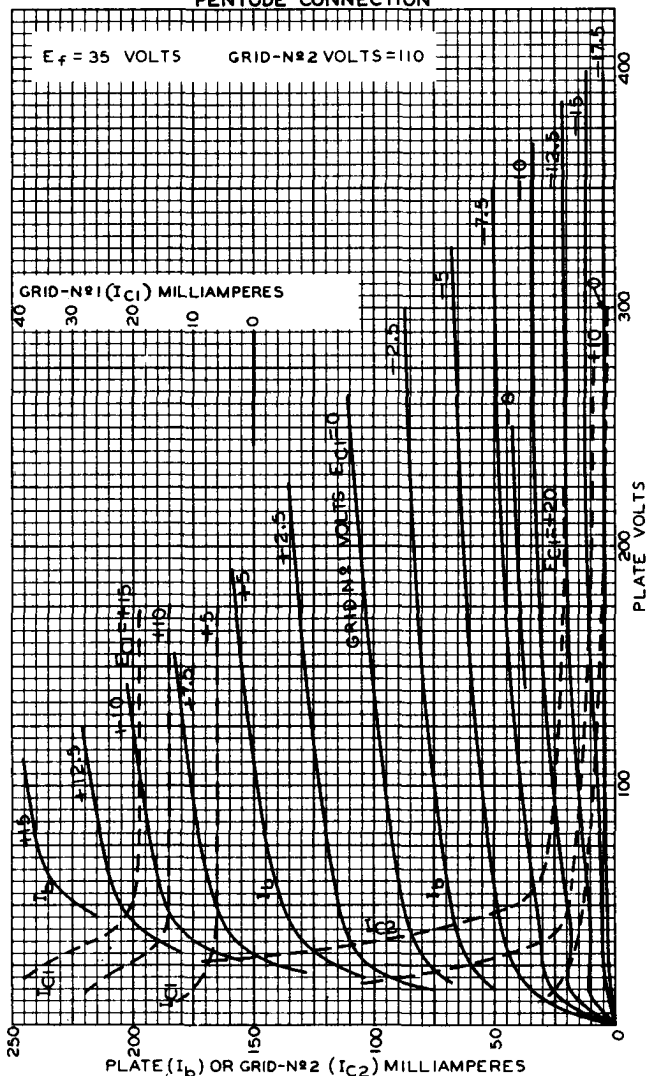
Curves shown under Type 35B5 are also applicable
to the 35L6-GT.



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AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



AUG. 11, 1941

TUBE DEPARTMENT

92CM-6309

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

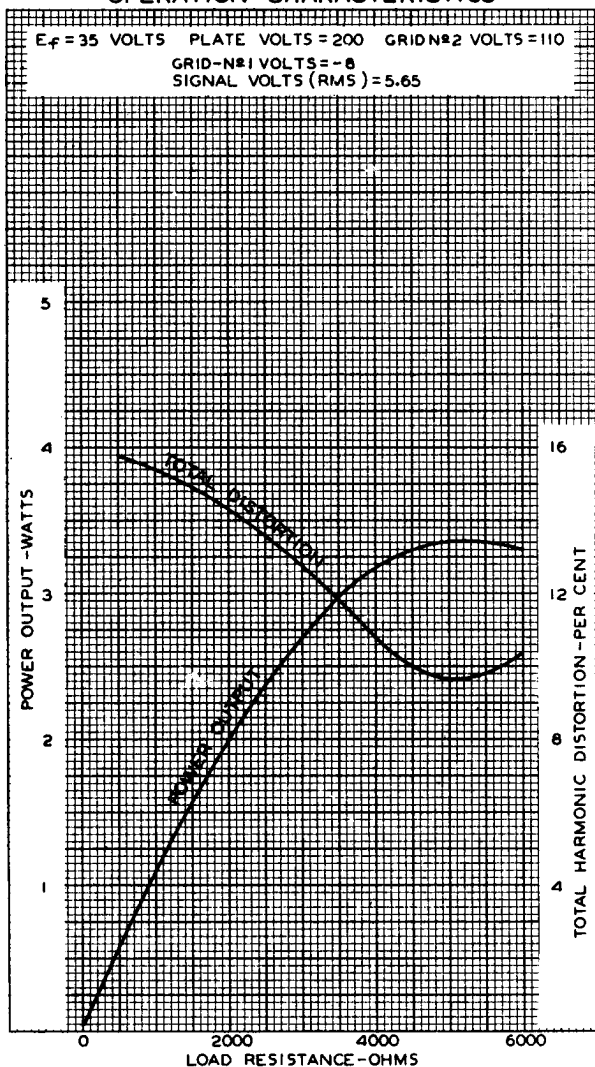
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OPERATION CHARACTERISTICS

$E_f = 35$ VOLTS PLATE VOLTS = 200 GRID#2 VOLTS = -110
 GRID#1 VOLTS = -8
 SIGNAL VOLTS (RMS) = 5.65



AUG. 21, 1941

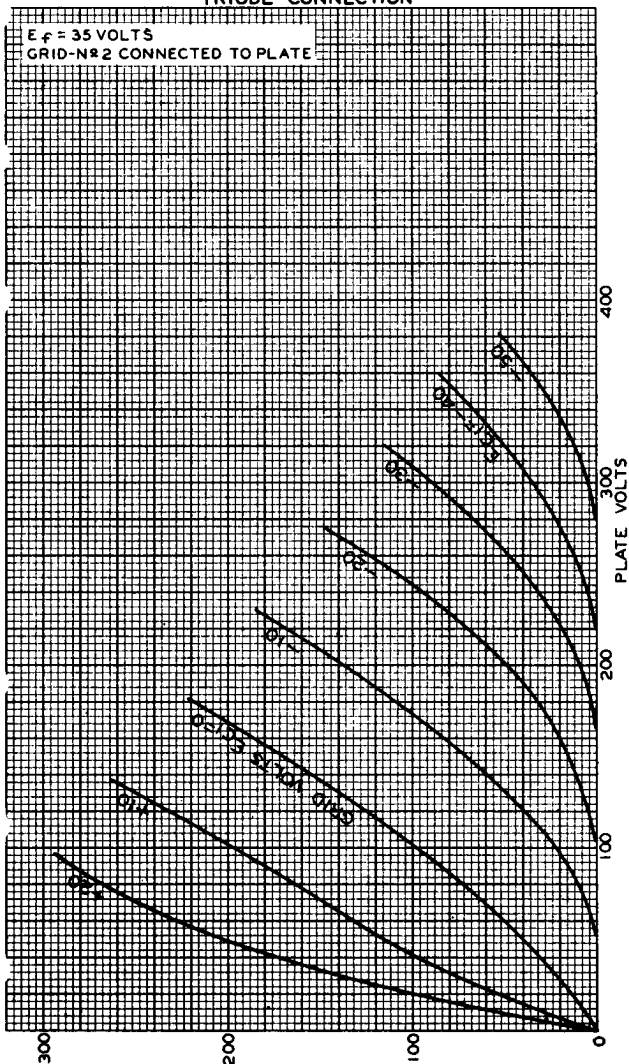
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92CM-6315



35L6-GT

35L6-GT AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



AUG. 6, 1941

PLATE MILLIAMPERES
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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6307R1