



35L6-GT

35L6-GT 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

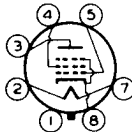
Grid No.1 to Plate	0.8	μ mf
Input	13	μ mf
Output	9.5	μ mf

^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	μ hos
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

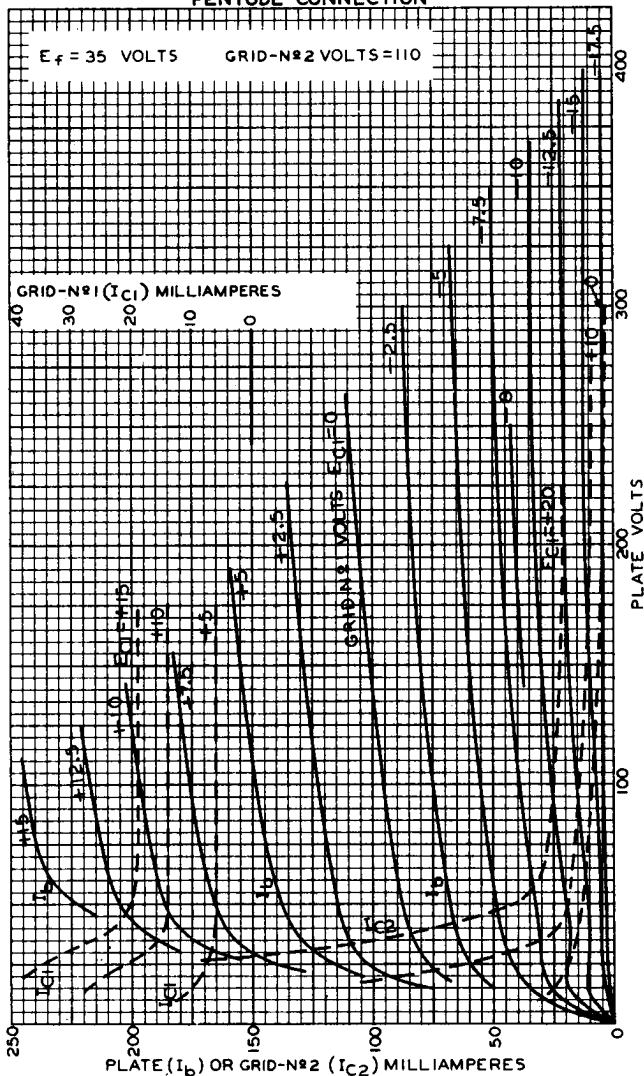
Curves shown under Type 35B5 are also applicable to the 35L6-GT.



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AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



AUG. 11, 1941

TUBE DEPARTMENT

92CM-6309

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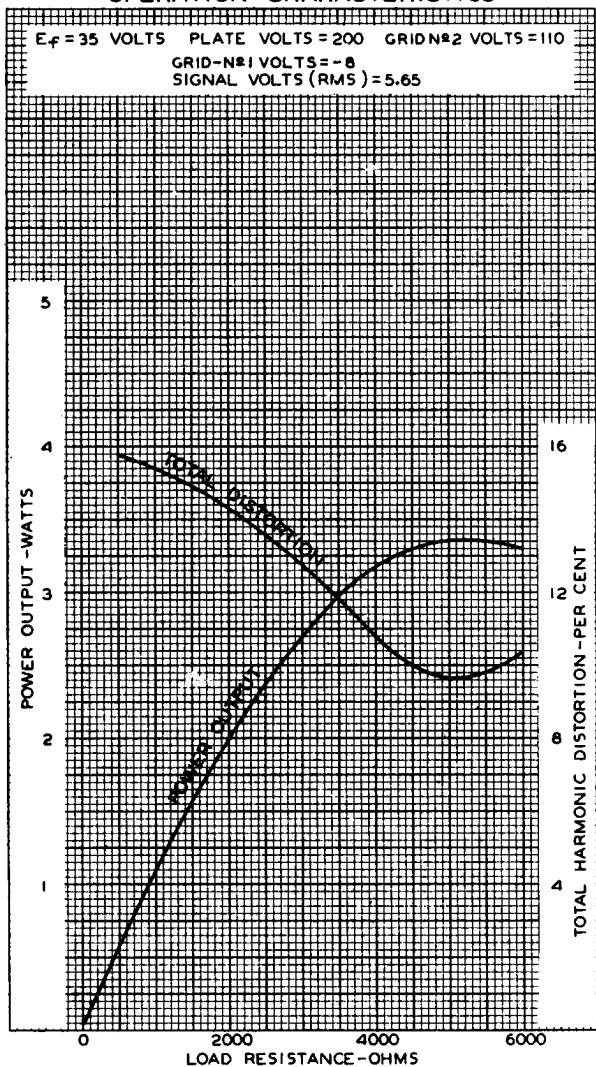
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OPERATION CHARACTERISTICS

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



AUG. 21, 1941

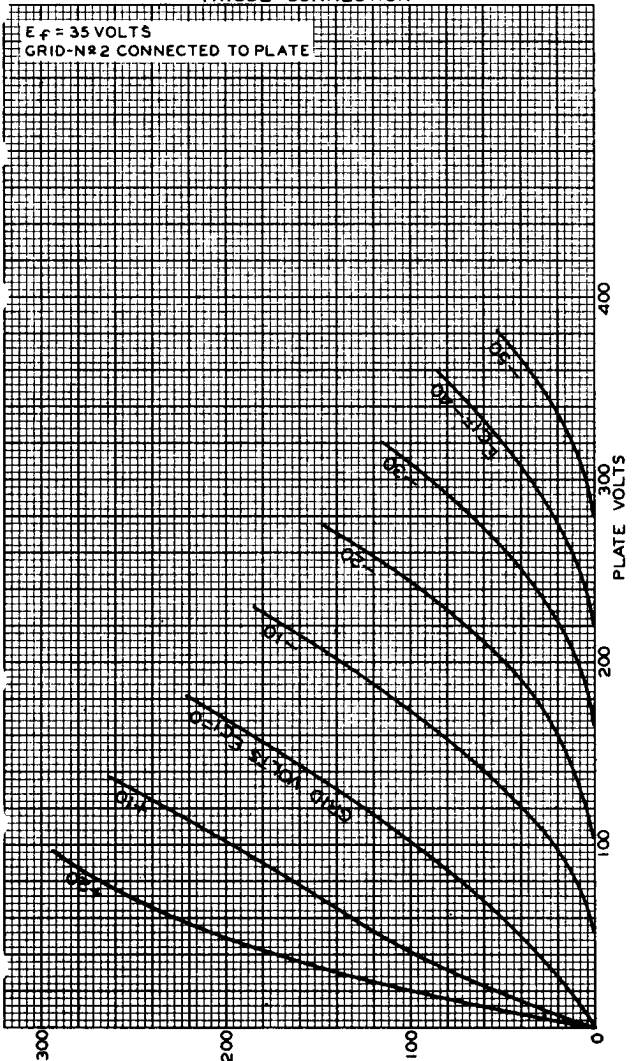
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92CM - 6315



35L6-GT

35L6-GT AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



AUG. 6, 1941

PLATE MILLIAMPERES
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM - 6307R1