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

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 59000 µmhos
Load Resistance: 2500 4500 ohms
Total Harmonic Distortion: 10 10%
Max.—Sig. Power Output: 1.5 3.3 watts

JUNE 20, 1947
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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 3585 are also applicable to the 35L6-GT.
OPERATION CHARACTERISTICS

$E_T = 35$ VOLS  PLATE VOLTS = 200  GRID-N&2 VOLTS = 110
GRID-N&1 VOLTS = -8
SIGNAL VOLTS (RMS) = 5.65

POWER OUTPUT - WATTS

LOAD RESISTANCE - OHMS

TOTAL HARMONIC DISTORTION - PER CENT

AUG. 21, 1941
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92CM - 6315
35L6-GT
AVERAGE PLATE CHARACTERISTICS
TRIODE CONNECTION

E_f = 35 VOLTS
GRID-NR2 CONNECTED TO PLATE

PLATE MILLIAMPERES

PLATE VOLTS

AUG. 6, 1941
PLATE, MILLIAMPERES
TUBE DEPARTMENT
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92CM - 6307RI