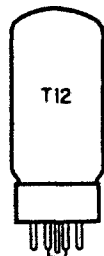
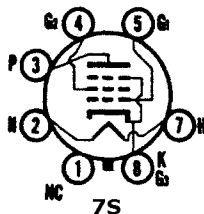


AUDIO POWER AMPLIFIER

6L6GC

Beam Power Pentode

ConstructionOctal T-12
 Base6 or 7 Pin, B6-122, B6-148
 B7-12, B7-111 or B7-119
 Basing.....7S
 Outline12-15
 Maximum Diameter1.562 In.
 Maximum Seated Height3.688 In.
 Maximum Overall Height4.250 In.



ELECTRICAL DATA

HEATER OPERATION

| | |
|---|-----------|
| Heater Voltage..... | 6.3 Volts |
| Heater Current | 900 Ma |
| Maximum Heater-Cathode Voltage | |
| Heater Negative with Respect to Cathode | |
| Total DC and Peak..... | 200 Volts |
| Heater Positive with Respect to Cathode | |
| DC | 100 Volts |
| Total DC and Peak..... | 200 Volts |

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

| | |
|---------------------------|--------|
| Grid No. 1 to Plate | 0.6 Pf |
| Input | 10 Pf |
| Output | 6.5 Pf |

RATINGS (Design Maximum Rating System)

Class AB1 Pentode Operation

| | Triode Conn. | Pentode Conn. |
|-------------------------------------|--------------|--------------------------|
| Plate Voltage (Max.) | 450 | 500 Volts |
| Grid No. 2 Voltage (Max.) | — | 450 ⁽¹⁾ Volts |
| Plate Dissipation (Max.) | 30 | 30 Watts |
| Grid No. 2 Dissipation (Max.) | — | 5.0 Watts |
| Grid No. 1 Circuit Resistance | | |
| Fixed Bias (Max.) | 0.1 | 0.1 Megohm |
| Cathode Bias (Max.) | 0.5 | 0.5 Megohm |

CHARACTERISTICS AND TYPICAL OPERATION

Pentode Operation (Class A1 Amp.)

| | Single Tube | | | Push-Pull | |
|---|-------------|-------|------|-----------|--------------|
| Plate Voltage | 250 | 300 | 250 | 250 | 270 Volts |
| Grid No. 2 Voltage | 250 | 200 | 250 | 250 | 270 Volts |
| Grid No. 1 Voltage | -14 | -12.5 | -18 | -16 | -17.5 Volts |
| Peak AF Grid Voltage | 14 | 12.5 | 18 | 16 | 17.5 Volts |
| Zero Signal Plate Current | 72 | 48 | 54 | 120 | 134 Ma |
| Maximum Signal Plate Current | 79 | 55 | 66 | 140 | 155 Ma |
| Zero Signal Grid No. 2 Current | 5.0 | 2.5 | 2.5 | 10 | 11 Ma |
| Maximum Signal Grid No. 2 Current | 7.3 | 4.7 | 7.0 | 16 | 17 Ma |
| Transconductance | 6K | 5.3K | 5.2K | — | — μ mhos |
| Plate Resistance (Approx.) | 22.5K | 35K | 33K | — | — Ohms |
| Load Resistance | 2.5K | 4.5K | 4.2K | — | — Ohms |
| Load Resistance (PL to PL) | — | — | — | 5K | 5K Ohms |
| Power Output | 6.5 | 6.5 | 10.8 | 14.5 | 17.5 Watts |
| Total Harmonic Distortion | 10 | 11 | 15 | 2 | 2 Percent |

Pentode Operation

| | Class AB2 Push-Pull | | Class AB1 Push-Pull | |
|---|---------------------|-------|---------------------|-------------|
| Plate Voltage | 360 | 360 | 360 | 450 Volts |
| Grid No. 2 Voltage | 225 | 270 | 270 | 400 Volts |
| Grid No. 1 Voltage | -18 | -22.5 | -22.5 | -37 Volts |
| Peak AF Grid Voltage | 26 | 36 | 22.5 | 35 Volts |
| Zero Signal Plate Current | 78 | 88 | 88 | 116 Ma |
| Maximum Signal Plate Current | 142 | 205 | 132 | 210 Ma |
| Zero Signal Grid No. 2 Current | 3.5 | 5.0 | 5.0 | 5.6 Ma |
| Maximum Signal Grid No. 2 Current | 11 | 16 | 15 | 22 Ma |
| Load Resistance (PL to PL) | 6000 | 3800 | 6600 | 5600 Ohms |
| Power Output | 31 | 47 | 26.5 | 55 Watts |
| Total Harmonic Distortion | 2 | 2 | 2 | 1.8 Percent |

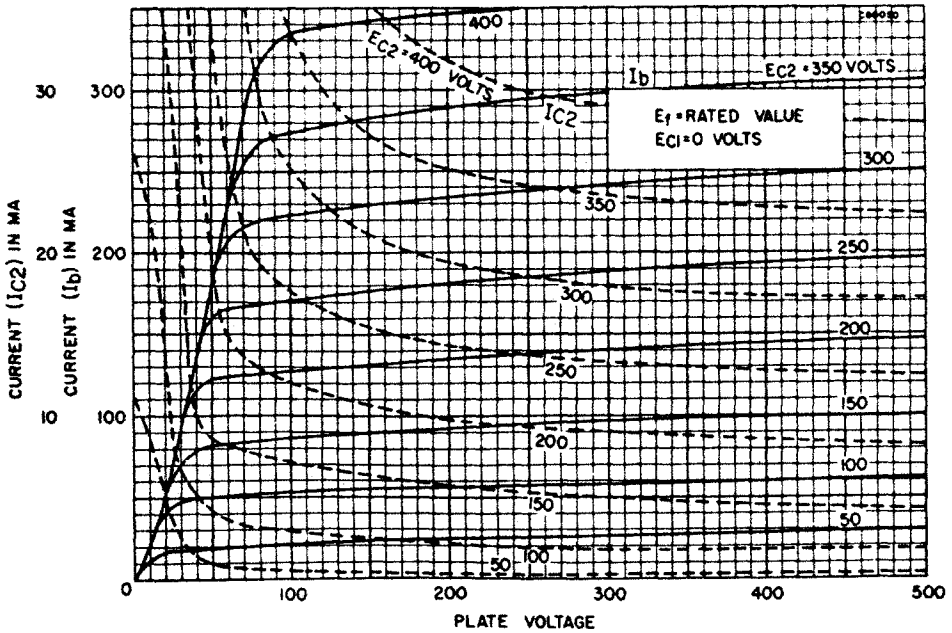
Triode Operation

| | Class A1 Amp. Single Tube | Class AB1 Amp. Push-Pull |
|------------------------------------|--------------------------------------|-------------------------------------|
| Plate Voltage | 250 | 400 Volts |
| Grid No. 1 Voltage | -20 | -40 Volts |
| Peak AF Grid No. 1 Voltage | 20 | 40 Volts |
| Zero Signal Plate Current | 40 | 95 Ma |
| Maximum Signal Plate Current | 44 | 140 Ma |
| Transconductance | 4700 | — μ mhos |
| Amplification Factor | 8 | — |
| Plate Resistance..... | 1700 | — Ohms |
| Load Resistance | 5000 | — Ohms |
| Load Resistance (PL to PL) | — | 4500 Ohms |
| Power Output | 1.4 | 12.5 Watts |
| Total Harmonic Distortion | 5 | 3.5 Percent |

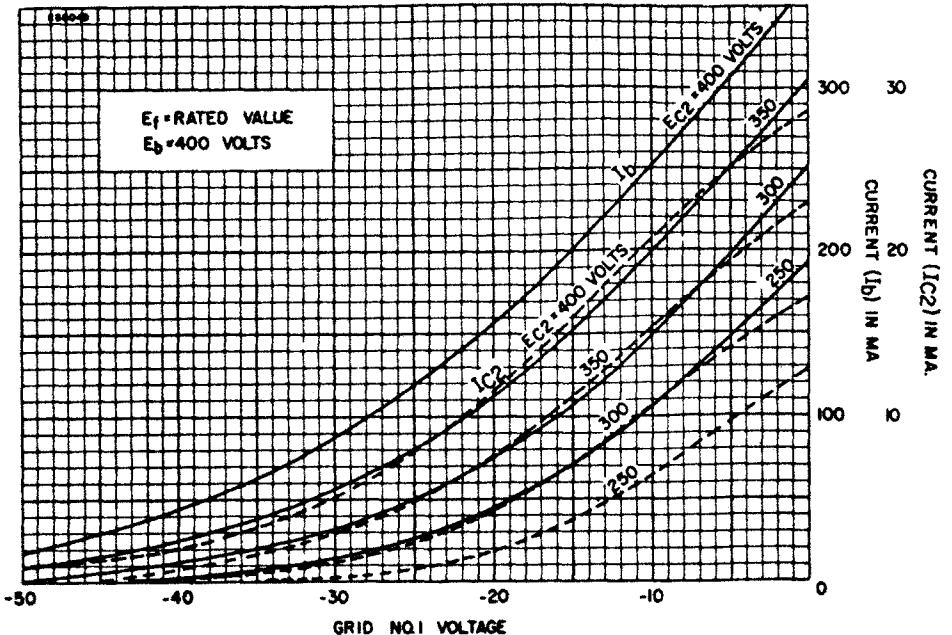
NOTE:

(1) The maximum Grid No. 2 voltage rating is 500 volts in push-pull circuits where Grid No. 2 of each tube is connected to a tap on the plate winding of the output transformer.

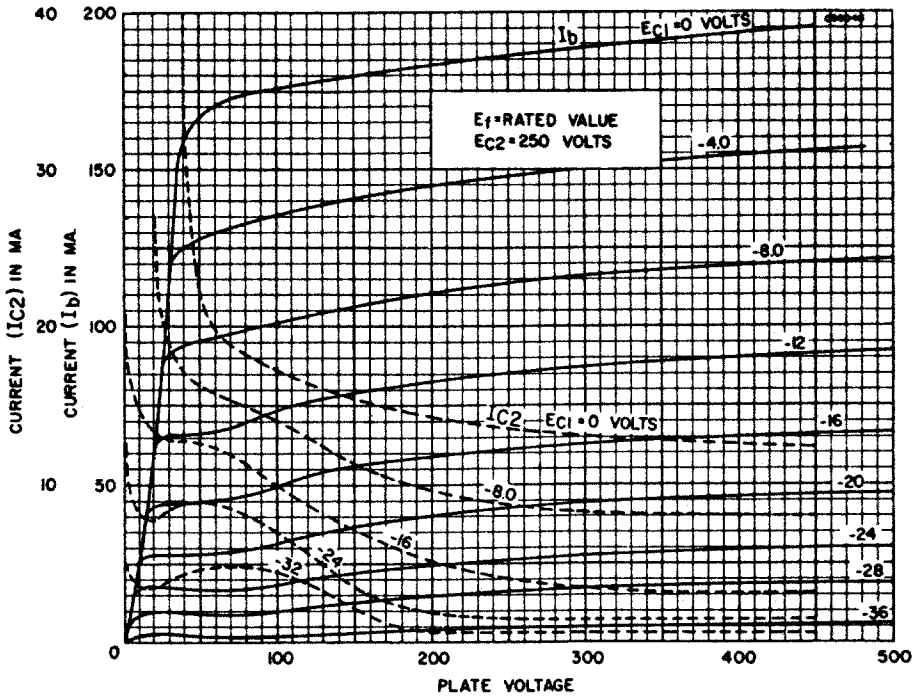
AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS

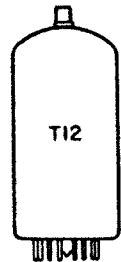
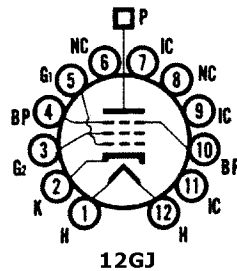


Color Television Type
**HORIZONTAL DEFLECTION
 AMPLIFIER**

6LB6

Beam Power Pentode

- Construction.....Compactron T-12
- BaseButton 12 Pin, E12-74
- Top CapC1-1
- Basing12GJ
- Outline12-90
- Maximum Diameter1.563 In.
- Maximum Seated Height4.000 In.
- Maximum Overall Height4.375 In.



ELECTRICAL DATA

HEATER OPERATION

| | |
|---|-----------|
| Heater Voltage..... | 6.3 Volts |
| Heater Current | 2250 Ma |
| Maximum Heater-Cathode Voltage | |
| Heater Negative with Respect to Cathode | |
| Total DC and Peak..... | 200 Volts |
| Heater Positive with Respect to Cathode | |
| DC | 100 Volts |
| Total DC and Peak..... | 200 Volts |

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

| | |
|-------------------------------------|---------|
| Grid No. 1 to Plate | 0.44 Pf |
| Input: g1 to (h + k + g2 + bp)..... | 33 Pf |
| Output: p to (h + k + g2 + bp)..... | 18 Pf |

RATINGS (Design Maximum Rating System)

| | |
|--|------------|
| Horizontal Deflection Amplifier Service ⁽¹⁾ | |
| DC Plate-Supply Voltage (Boost + DC Power Supply) (Max.) | 990 Volts |
| Peak Positive Pulse Plate Voltage (Absolute Maximum Value) | 7000 Volts |
| Peak Negative Pulse Plate Voltage (Max.) | 100 Volts |
| Positive DC Beam Plate Voltage (Max.) | 0 Volt |
| Screen Voltage (Max.) | 200 Volts |
| Peak Negative Grid No. 1 Voltage (Max.) | 300 Volts |
| Plate Dissipation (Absolute Maximum Value) ⁽²⁾ | 30 Watts |
| Screen Dissipation (Max.) | 5.0 Watts |