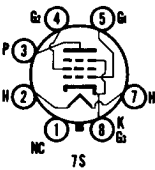


AUDIO POWER AMPLIFIER

6L6GC

Beam Power Pentode

Construction Octal T-12
Base 6 or 7 Pin, B6-122, B6-148
 B7-12, B7-111 or B7-119
Basing.....7S
Outline 12-15
Maximum Diameter 1.562 In.
Maximum Seated Height 3.688 In.
Maximum Overall Height 4.250 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	270 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

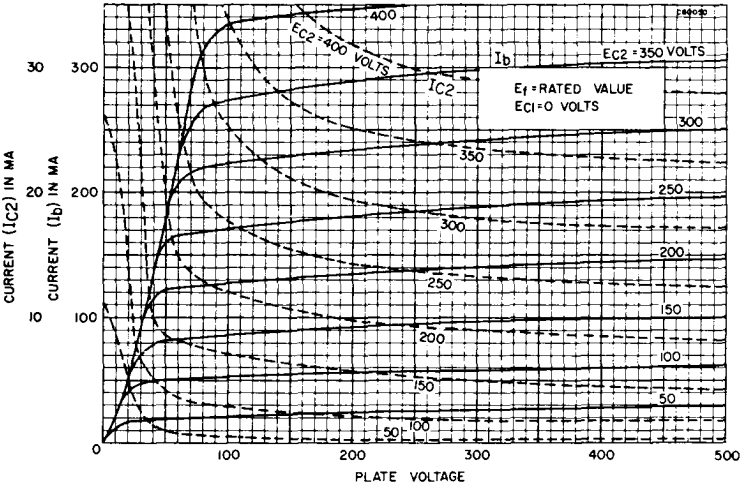
Triode Operation

	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

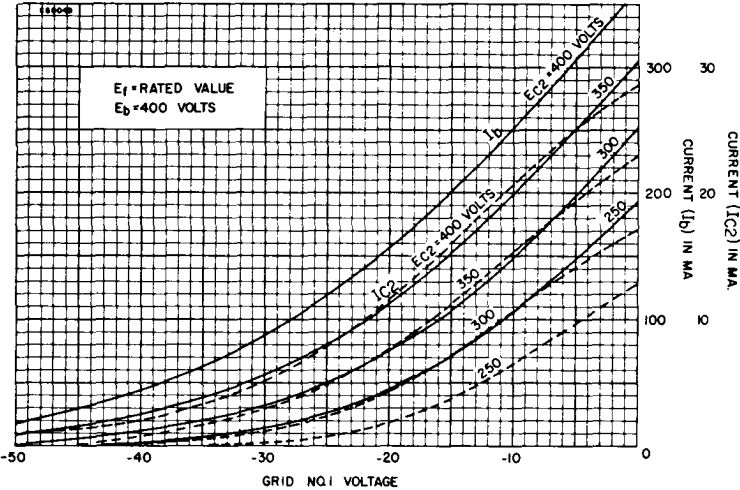
NOTE:

- (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.

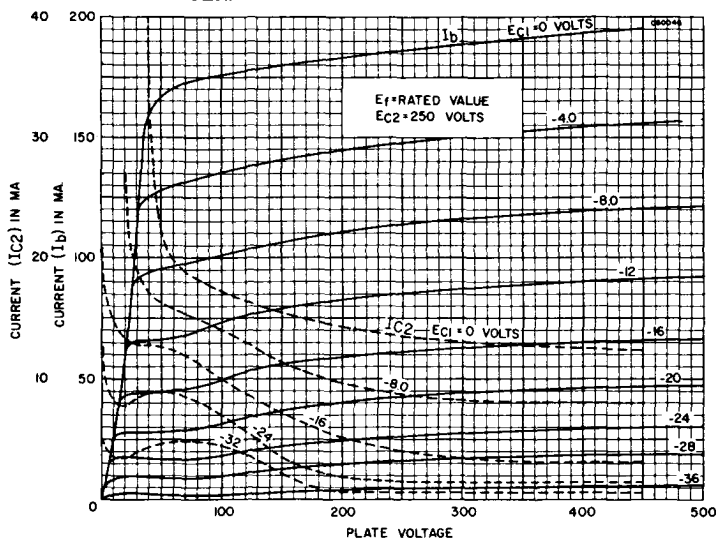
AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



Color Television Type

HORIZONTAL DEFLECTION
AMPLIFIER

6LB6

Beam Power Pentode

Construction..... Compactron T-12
 Base Button 12 Pin, E12-74
 Top Cap C1-1
 Basing 12FY
 Outline 12-90
 Maximum Diameter 1.563 In.
 Maximum Seated Height 4.000 In.
 Maximum Overall Height 4.375 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

