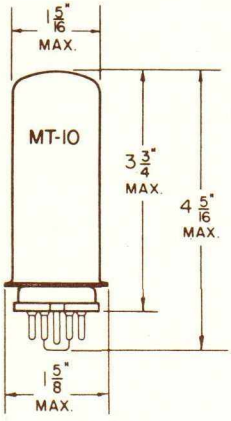
TUNG-SOL

BEAM PENTODE

6L6



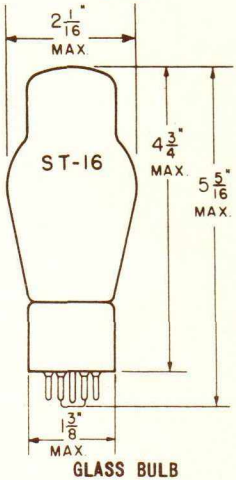
METAL SHELL

COATED UNIPOTENTIAL CATHODE

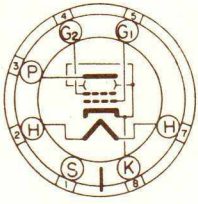
HEATER
6.3 VOLTS 0.9 AMP.
AC OR DC

ANY MOUNTING POSITION

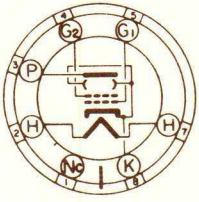
6L6G



GLASS BULB



BOTTOM VIEW
SMALL WAFER
7 PIN OCTAL
7AC



BOTTOM VIEW
MEDIUM SHELL
7 PIN OCTAL
7AC

THE 6L6 AND 6L6G ARE DESIGNED WITH HIGH POWER SENSITIVITY AND HIGH EFFICIENCY FOR SERVICE IN THE OUTPUT STAGES OF AC RECEIVERS. THEY ARE CAPABLE OF DELIVERING AN OUTPUT AT ALL POWER LEVELS WITH A VERY LOW PERCENTAGE OF HARMONIC DISTORTION.

DIRECT INTERELECTRODE CAPACITANCES

	6L6	6L6G	
GRID TO PLATE	0.4	0.9	μμf
INPUT	10	11.5	μμf
OUTPUT	12	9.5	μμf

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE OR ADDITION.

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RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

	TRIODE[A] CONNECTION	PENTODE CONNECTION	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE	180	180	VOLTS
MAXIMUM PLATE VOLTAGE	275	360	VOLTS ←
MAXIMUM GRID #2 VOLTAGE	PLATE	270	VOLTS
MAXIMUM PLATE DISSIPATION	19	19	WATTS
MAXIMUM GRID #2 DISSIPATION	---	2.5	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE			
FIXED BIAS OPERATION	0.1	0.1	MEGOHM ←
CATHODE BIAS OPERATION	0.5	0.5	MEGOHM

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER – PENTODE CONNECTION

HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	0.9	0.9	0.9	AMP.
PLATE VOLTAGE	250	300	350	VOLTS
GRID #2 VOLTAGE	250	200	250	VOLTS
GRID #1 VOLTAGE	-14	-12.5	-18	VOLTS
PEAK AF SIGNAL VOLTAGE	14	12.5	18	VOLTS
TRANSCONDUCTANCE	6 000	5 300	5 200	µMHOS
PLATE RESISTANCE	22 500	35 000	33 000	OHMS
ZERO SIGNAL PLATE CURRENT	72	48	54	MA.
MAXIMUM SIGNAL PLATE CURRENT	79	55	66	MA.
ZERO SIGNAL GRID #2 CURRENT	5	2.5	2.5	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	7.3	4.7	7	MA.
LOAD RESISTANCE	2 500	4 500	4 200	OHMS
POWER OUTPUT	6.5	6.5	10.8	WATTS
TOTAL HARMONIC DISTORTION	10	11	15	PERCENT

CLASS A_1 AMPLIFIER – TRIODE CONNECTION[A]

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.9	AMP.
PLATE VOLTAGE	250	VOLTS
GRID #2 VOLTAGE	PLATE	
GRID #1 VOLTAGE	-20	VOLTS
PEAK AF SIGNAL VOLTAGE	20	VOLTS
TRANSCONDUCTANCE	4 700	VOLTS
PLATE RESISTANCE	1 700	OHMS
AMPLIFICATION FACTOR	8	
ZERO SIGNAL PLATE CURRENT	40	MA.
MAXIMUM SIGNAL PLATE CURRENT	44	MA.
LOAD RESISTANCE	5 000	OHMS
POWER OUTPUT	1.4	WATTS
TOTAL HARMONIC DISTORTION	5	PERCENT

[A] GRID #2 CONNECTED TO PLATE

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CLASS A_1 PUSH-PULL AMPLIFIER – PENTODE CONNECTION

VALUES ARE FOR TWO TUBES

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.9	0.9	AMP.
PLATE VOLTAGE	250	270	VOLTS
GRID #2 VOLTAGE	250	270	VOLTS
GRID #1 VOLTAGE	-16	-17.5	VOLTS
PEAK AF GRID TO GRID VOLTAGE	32	35	VOLTS
TRANSCONDUCTANCE (EACH TUBE)	5 500	5 700	µMHOS
PLATE RESISTANCE (EACH TUBE)	24 500	23 500	OHMS
ZERO SIGNAL PLATE CURRENT	120	134	MA.
MAXIMUM SIGNAL PLATE CURRENT	140	155	MA.
ZERO SIGNAL GRID #2 CURRENT	10	11	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	16	17	MA.
LOAD RESISTANCE	5 000	5 000	OHMS
POWER OUTPUT	14.5	17.5	WATTS
TOTAL HARMONIC DISTORTION	2	2	PERCENT

CLASS AB_1 PUSH-PULL AMPLIFIER – PENTODE CONNECTION

VALUES ARE FOR TWO TUBES

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.9	0.9	AMP.
PLATE VOLTAGE	360	360	VOLTS
GRID #2 VOLTAGE	270	270	VOLTS
GRID #1 VOLTAGE	-22.5	-22.5	VOLTS
PEAK AF GRID TO GRID VOLTAGE	45	45	VOLTS
ZERO SIGNAL PLATE CURRENT	88	88	MA.
MAXIMUM SIGNAL PLATE CURRENT	132	140	MA.
ZERO SIGNAL GRID #2 CURRENT	5	5	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	15	11	MA.
LOAD RESISTANCE	6 600	3 800	OHMS
POWER OUTPUT	26.5	18	WATTS
TOTAL HARMONIC DISTORTION	2	2	PERCENT

CLASS AB_2 PUSH-PULL AMPLIFIER – PENTODE CONNECTION

VALUES ARE FOR TWO TUBES

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.9	0.9	AMP.
PLATE VOLTAGE	360	360	VOLTS
GRID #2 VOLTAGE	225	270	VOLTS
GRID #1 VOLTAGE	-18	-22.5	VOLTS
PEAK AF GRID TO GRID VOLTAGE	52	72	VOLTS
ZERO SIGNAL PLATE CURRENT	78	88	MA.
MAXIMUM SIGNAL PLATE CURRENT	142	205	MA.
ZERO SIGNAL GRID #2 CURRENT	3.5	5	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	11	16	MA.
LOAD RESISTANCE	6 000	3 800	OHMS
POWER OUTPUT	31	47	WATTS
TOTAL HARMONIC DISTORTION	2	2	PERCENT

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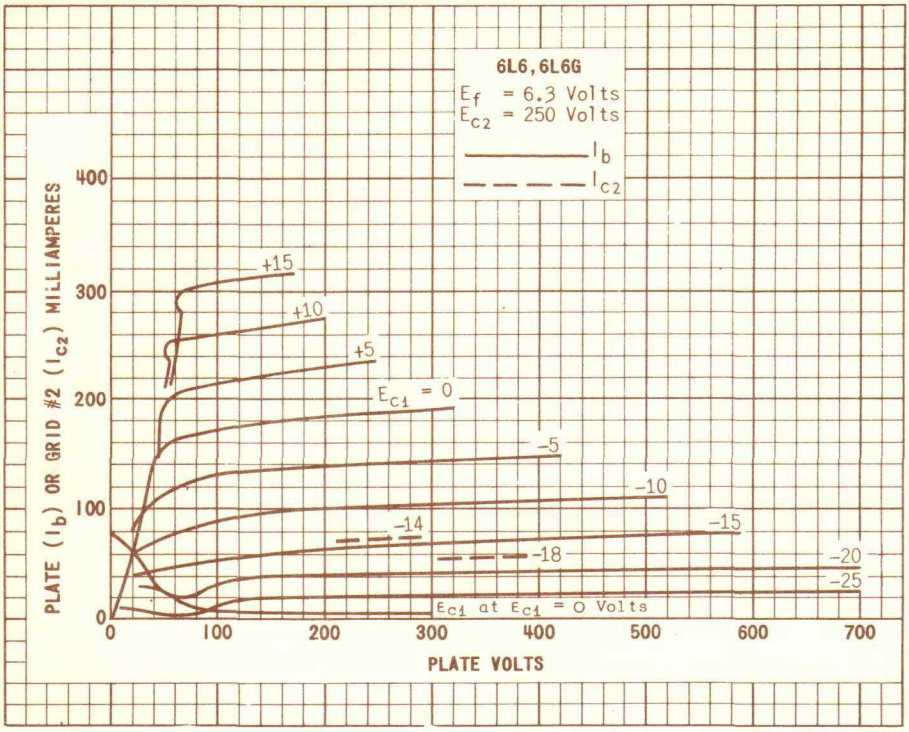
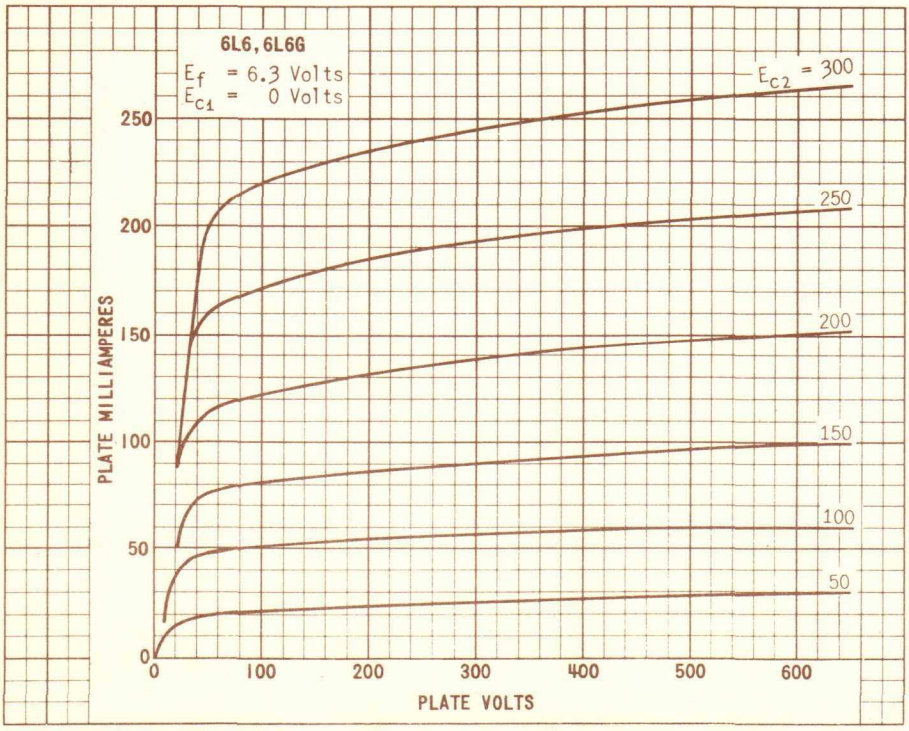
6L6, 6L6G





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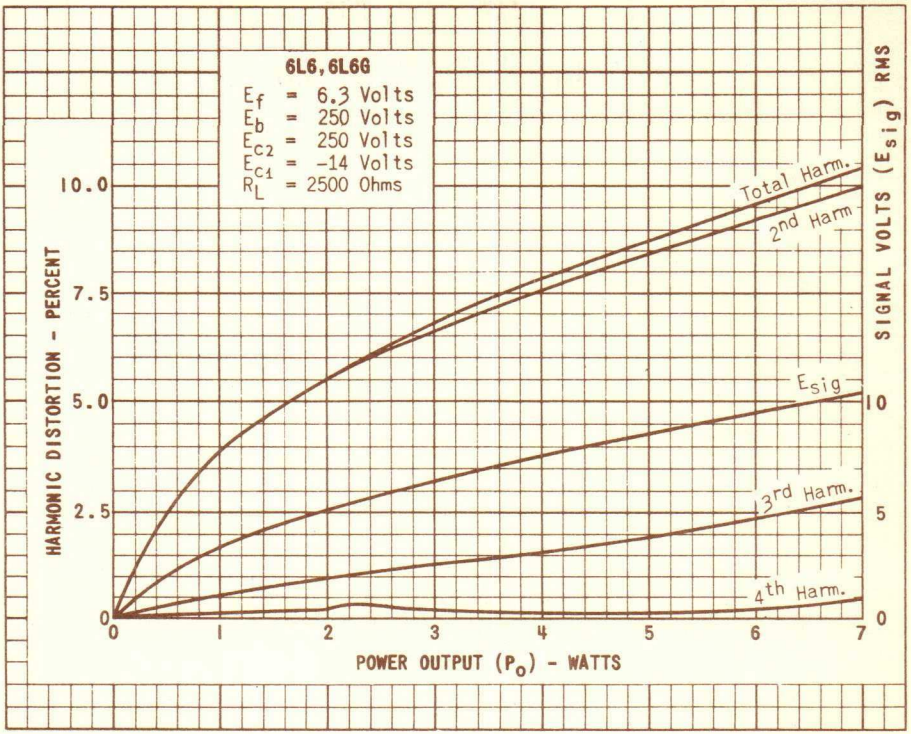

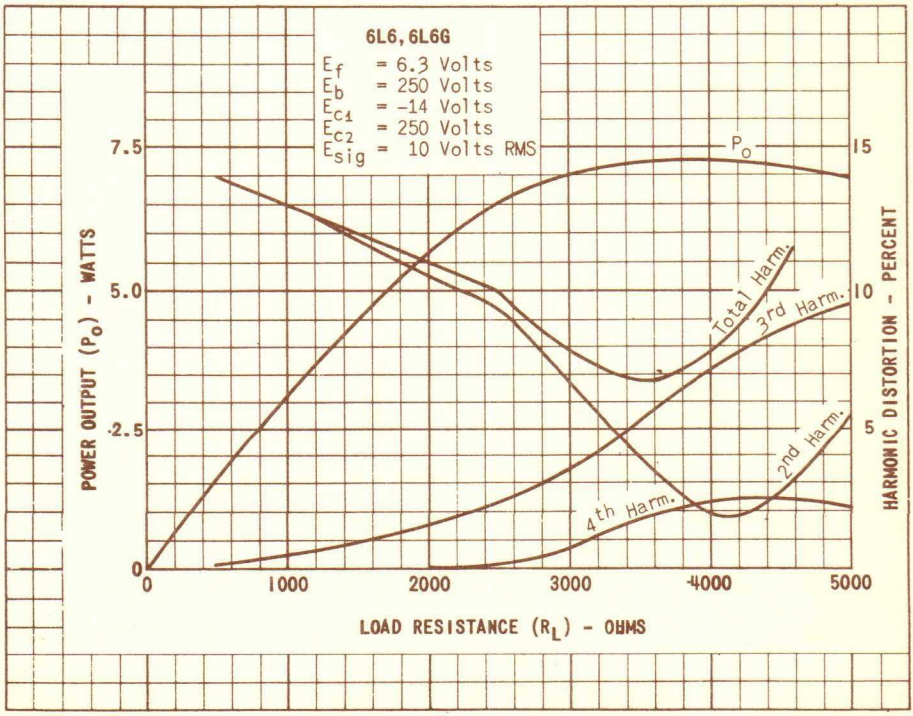

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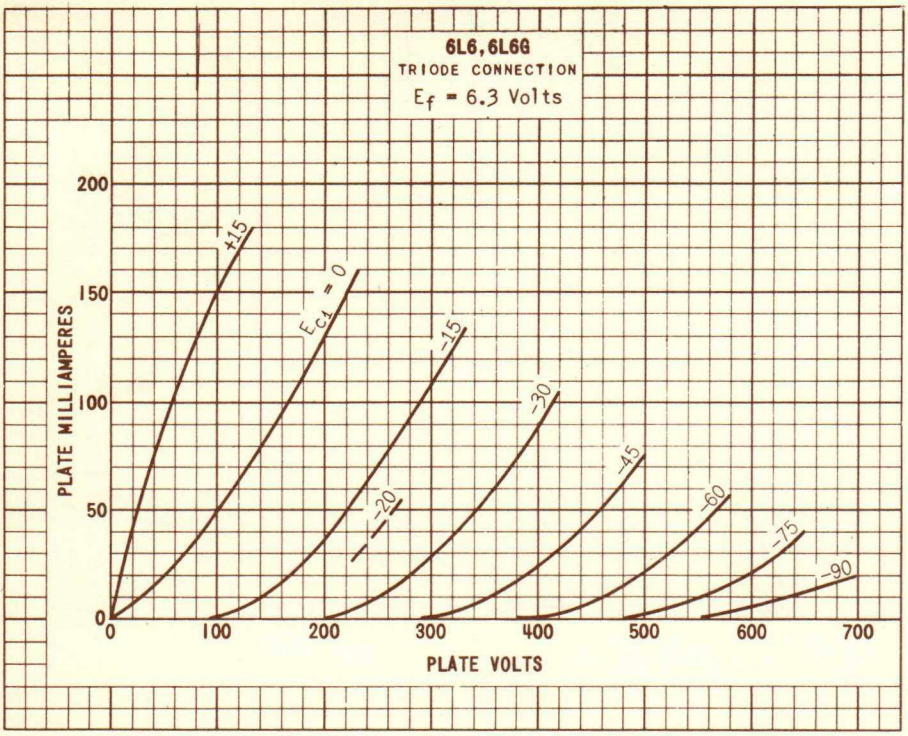
6L6, 6L6G



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