



6L6GC

6L6GC is Beam Power
Pentode suitable for use in
A.F. power amplifier
applications



Heating

Heater voltage	V_f	6,3	(V)
Heater current	I_f	900	(mA)
Maximum heater-cathode voltage	V_{fk}	180	(V)

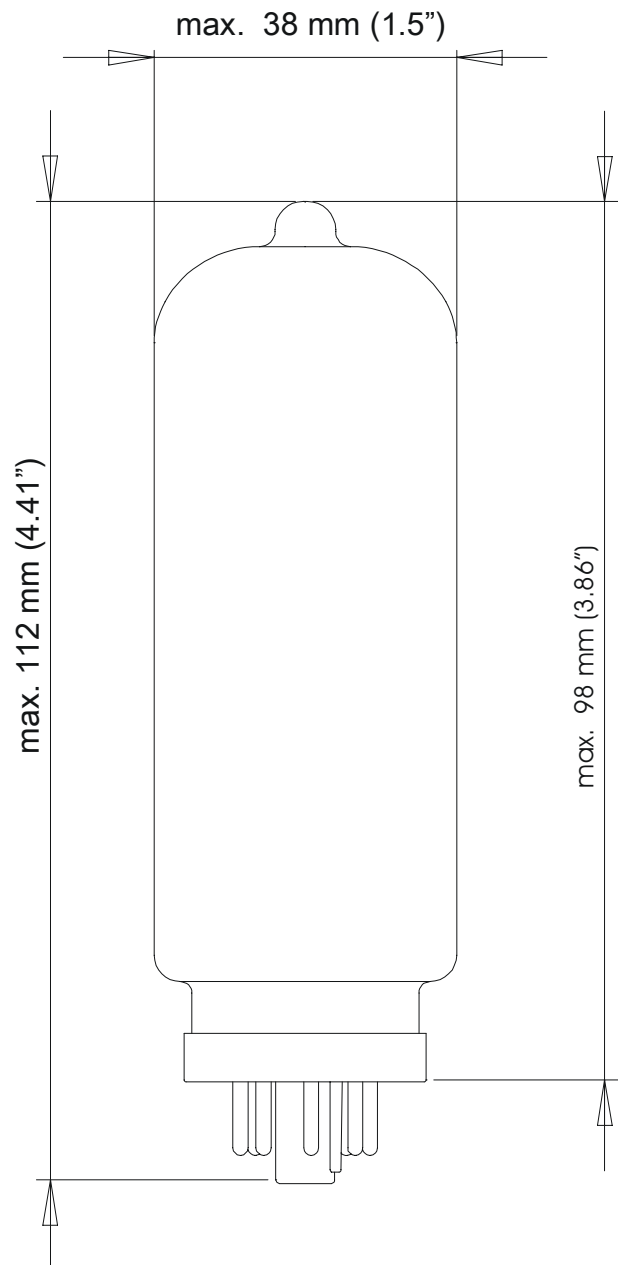
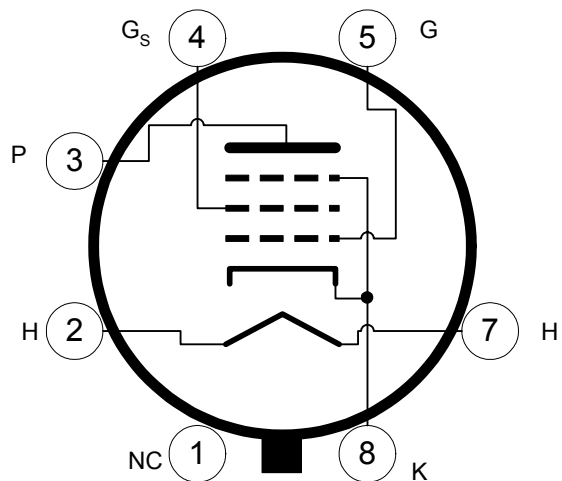
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Dimensions and connections

Base: Octal



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Maximum ratings (design center values)

		Triode connection	Pentode connection	
Plate voltage		275	360	(V)
Grid No. 2 voltage			270	(V)
Plate dissipation		19	19	(W)
Grid No. 2 dissipation			2,5	(W)
Grid No. 1 circuit resistance	fixed bias	0,1	0,1	(MΩ)
	cathode bias			

Operating characteristics

❖ **Class A₁ amplifier (single tube)**

	Triode connection	Pentode connection			
		250	300	350	
Plate voltage	250	250	300	350	(V)
Grid No. 2 voltage		250	200	250	(V)
Grid No. 1 voltage	-20	-14	-12,5	-18	(V)
Peak AF signal voltage	20	14	12,5	18	(V)
Plate current (zero signal)	40	72	48	54	(mA)
Plate current (max. signal)	44	79	55	66	(mA)
Grid No. 2 current (zero signal)		5	2,5	2,5	(mA)
Grid No. 2 current (max. signal)		7,3	4,7	7	(mA)
Transconductance	4,7	6	5,3	5,2	(mA/V)
Plate resistance	1,7	22,5	35	33	(kΩ)

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Load resistance	5	2,5	4,5	4,2	(kΩ)
Output power	1,4	16,5	6,5	10,8	(W)
Total harmonic distortion	5	10	11	15	(%)

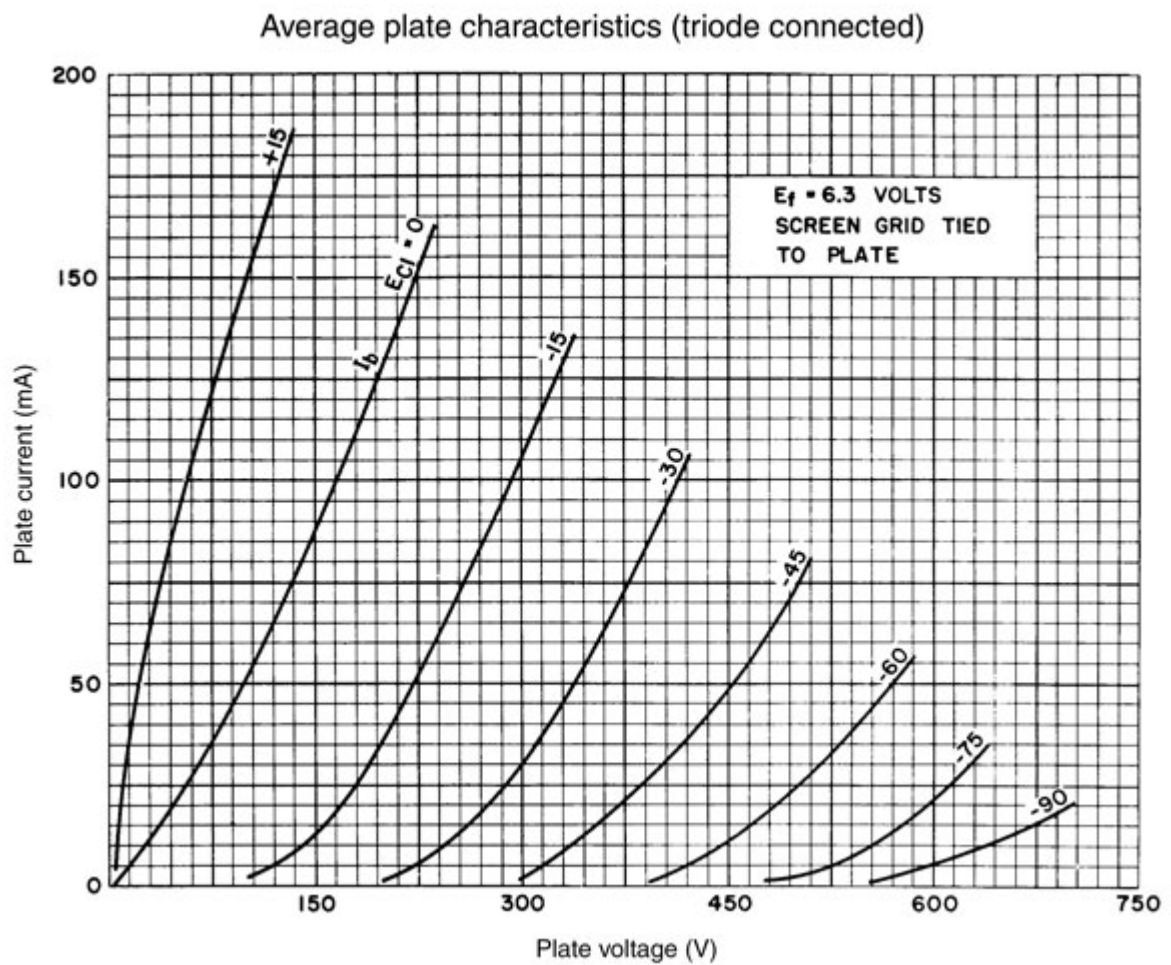
❖ **Push-pull amplifier**

	Class A ₁		Class AB ₁		Class AB ₂		
Plate voltage	250	270	360	360	360	360	(V)
Grid No. 2 voltage	250	270	270	270	225	270	(V)
Grid No. 1 voltage	-16	- 17,5	- 22,5	- 22,5	-18	- 22,5	(V)
Peak AFgrid to grid voltage	32	35	45	45	52	72	(V)
Plate current (zero signal)	120	134	88	88	78	88	(mA)
Plate current (max. signal)	140	155	132	140	142	205	(mA)
Grid No. 2 current (zero signal)	10	11	5	5	3,5	5	(mA)
Grid No. 2 current (max. signal)	16	17	15	11	11	16	(mA)
Transconductance (each tube)	5,5	5,7					(mA/V)
Plate resistance (each tube)	24,5	23,5					(kΩ)
Load resistance	5	5	6,6	3,8	6	3,8	(kΩ)
Output power	14,5	17,5	26,5	18	31	47	(W)
Total harmonic distortion	2	2	2	2	2	2	(%)

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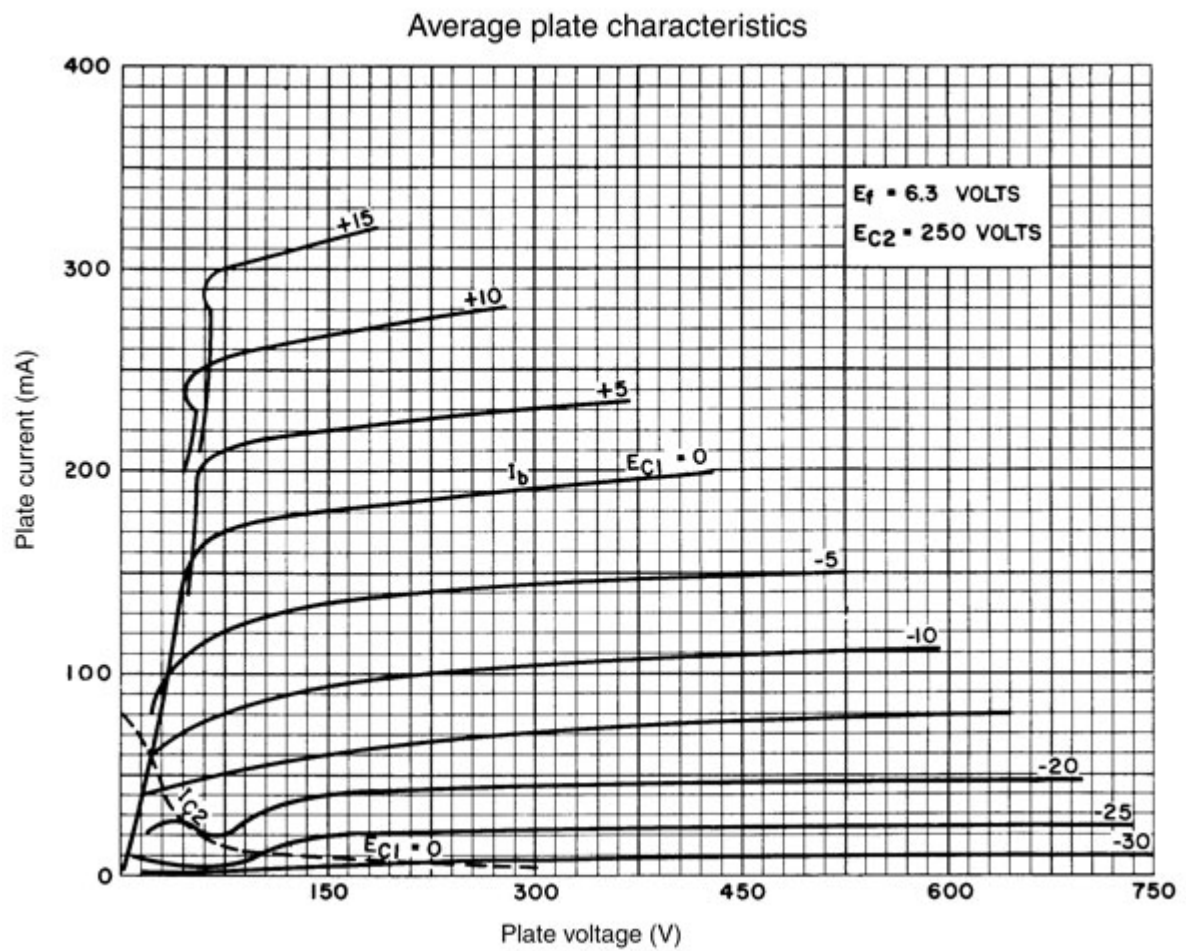
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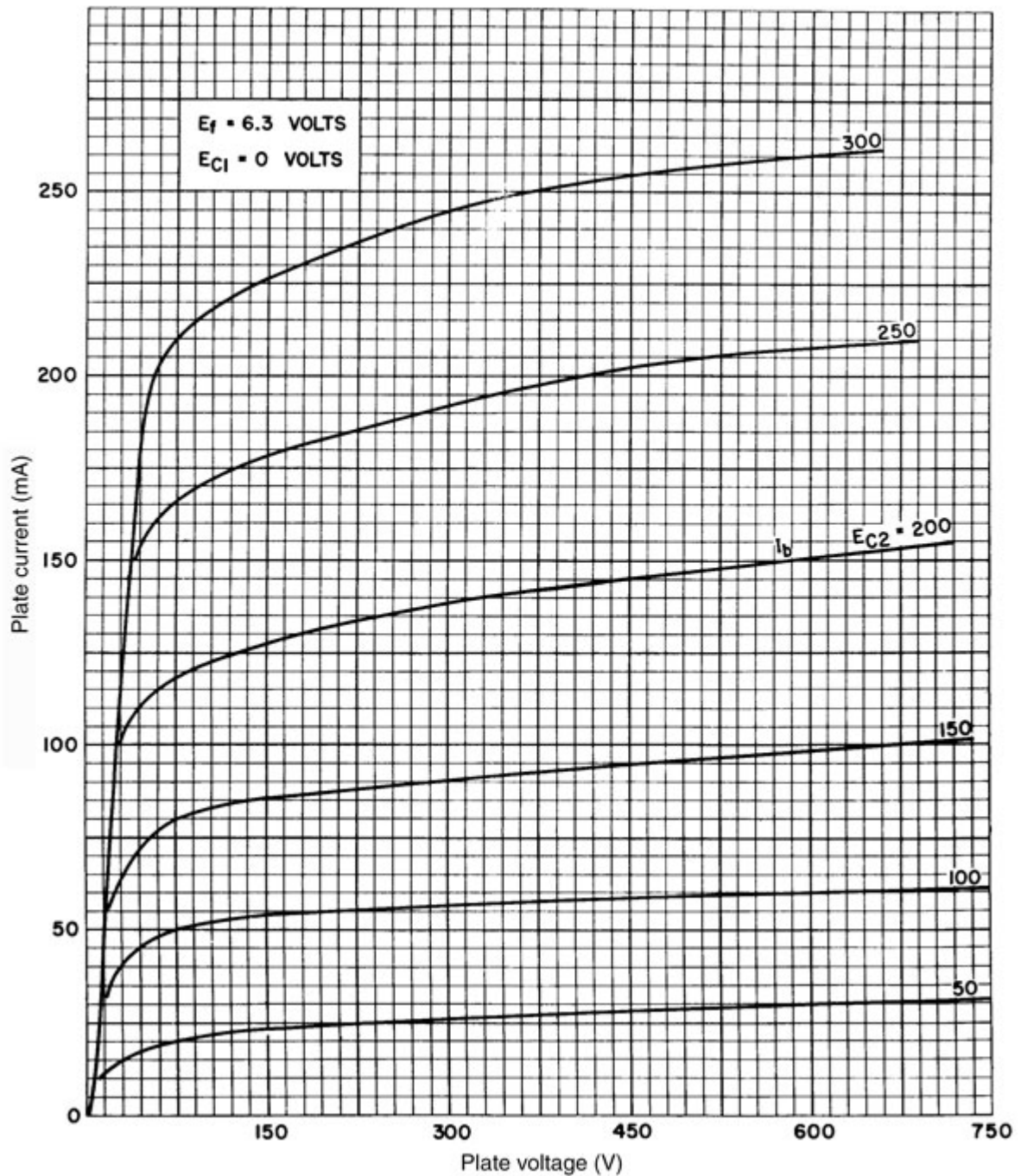


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Average plate characteristics



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