KT90

The KT90 is a beam-power pentode primarily designed for use in audio frequency power amplifier applications. Anode dissipation rate is 50W, which provides for push-pull amplifiers utilization up to 110W output per pair, with 550V on the anode. Up to 160W per pair may be achieved with anode voltage of 750V and screen grid voltage of 600V.
The KT90 is recommended as a replacement for 6550, 6550A and KT88.

General Characteristics

Heater voltage	6.3 ±0.6 Volts AC or DC
Heater Current	1.6 Amperes
Grid1 to Anode capacitance	1.8 pF
Anode to all other electrodes capacitance	29 pF
Grid 1 to all other electrodes capacitance	10 pF
Mounting position	Any
Envelope	Glass
Base	Octal, 8 pins

Absolute Maximum Ratings	Pentode connection	Triode connection
Va	750 V	600 V
Vg2	650 V	
-Vg1	200 V	200 V
Pa	50 W	50 W
Pg2	8 W	
Pa + Pg2	54 W	
Ik	230 mA	230 mA
Vkf (DC)	300 V	300 V

Average Characteristics, Pentode connection		
Va	250 V	400 V
Vg2	250 V	300 V
Vg1	-14 V	-27 V
Ia	145 mA	90 mA
Ig2	8 mA	4.7 mA
Vg1 @ Ia = ~1 mA	-36 V	-42 V
S	14 mA/V	8.8 mA/V
Ri	11 kΩ	25 kΩ

Average Characteristics, Triode connection	
Va	250 V
Vg1	-14 V
Ia + Ig2	153 mA
S	15 mA/V
Ri	650 Ω
μ	9

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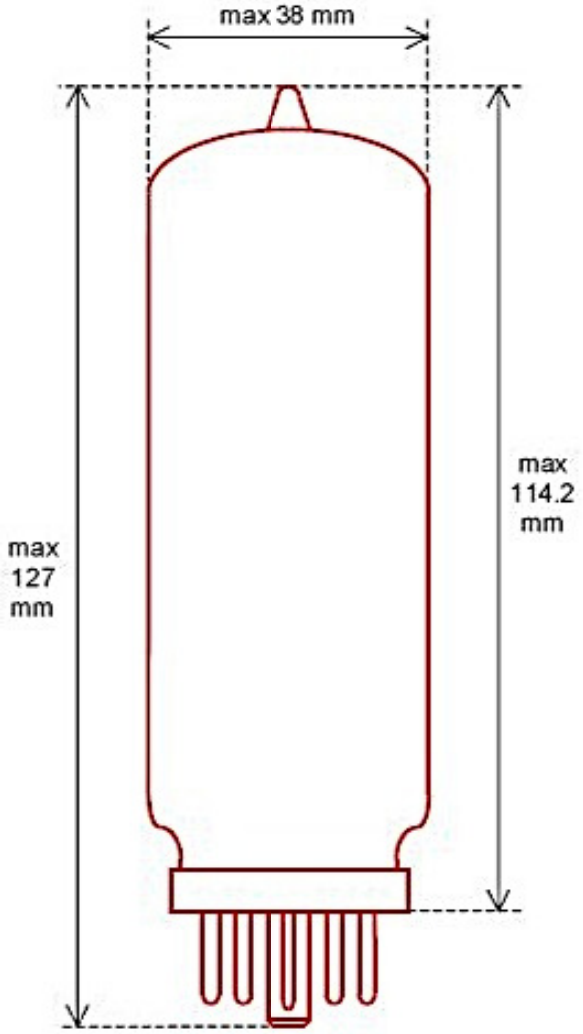

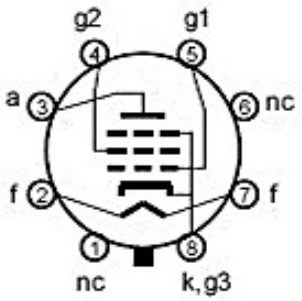

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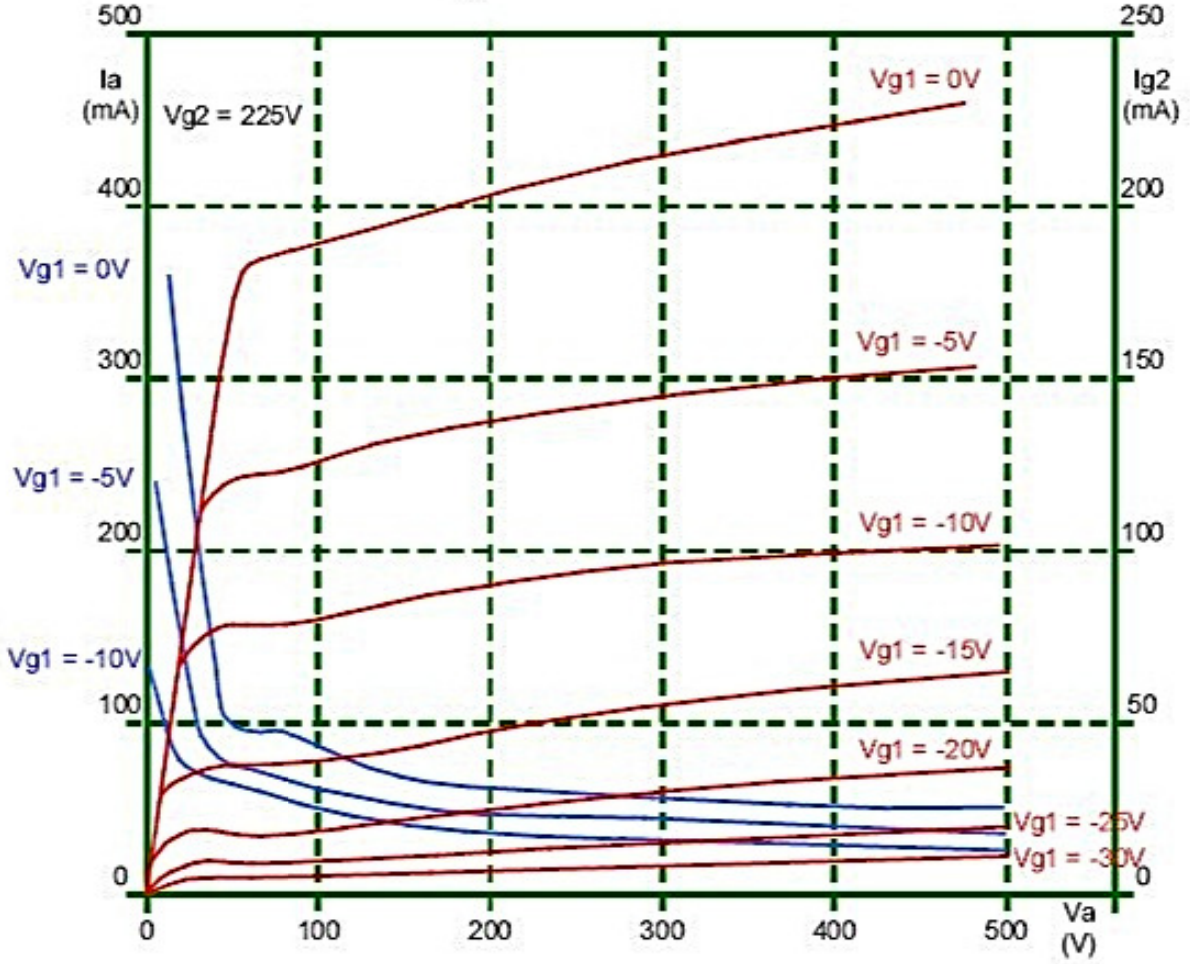
Average Plate Characteristics



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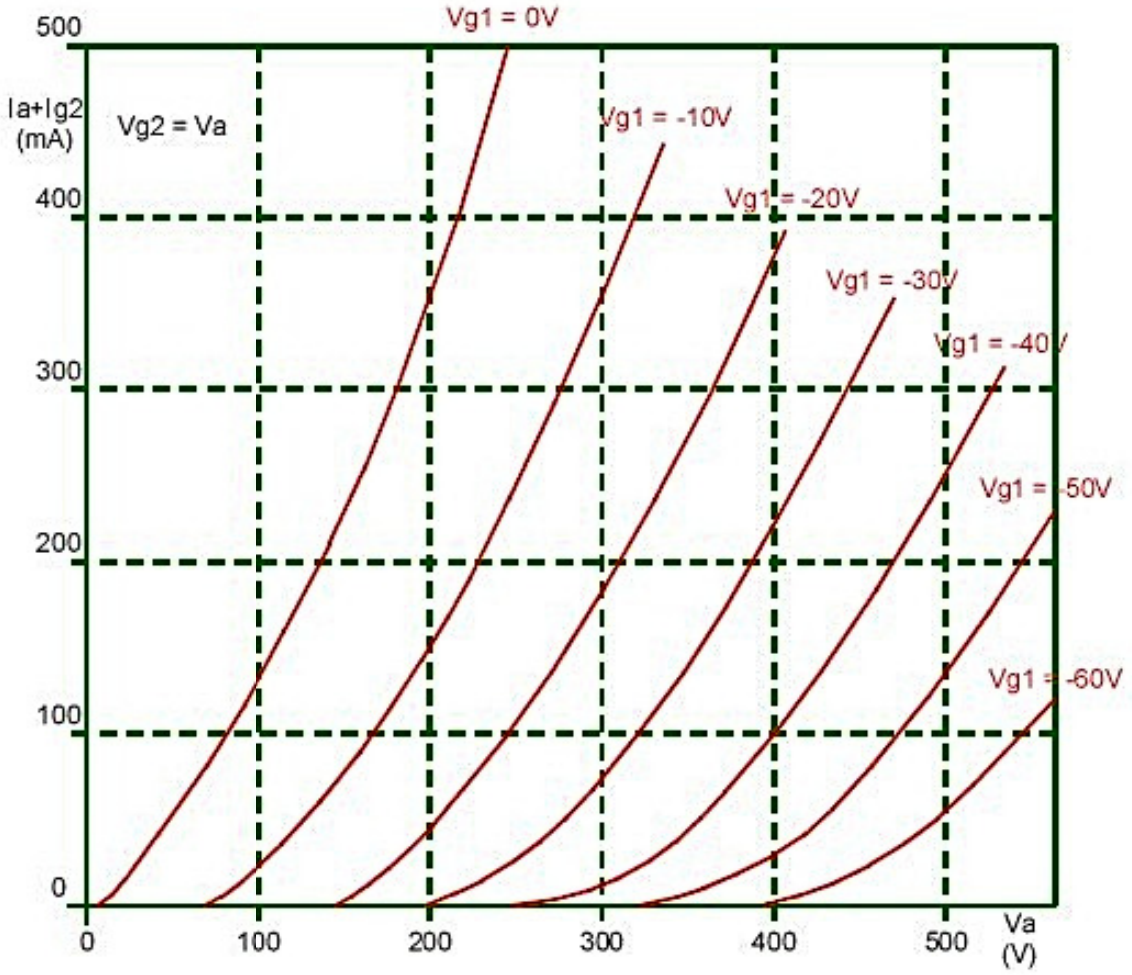
Average Plate Characteristics, Triode connection



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Average Transfer Characteristics