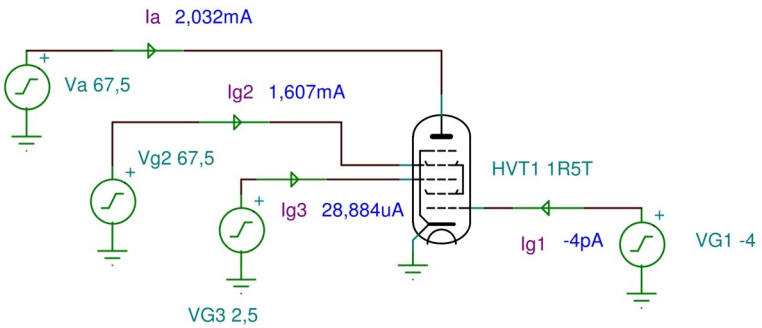
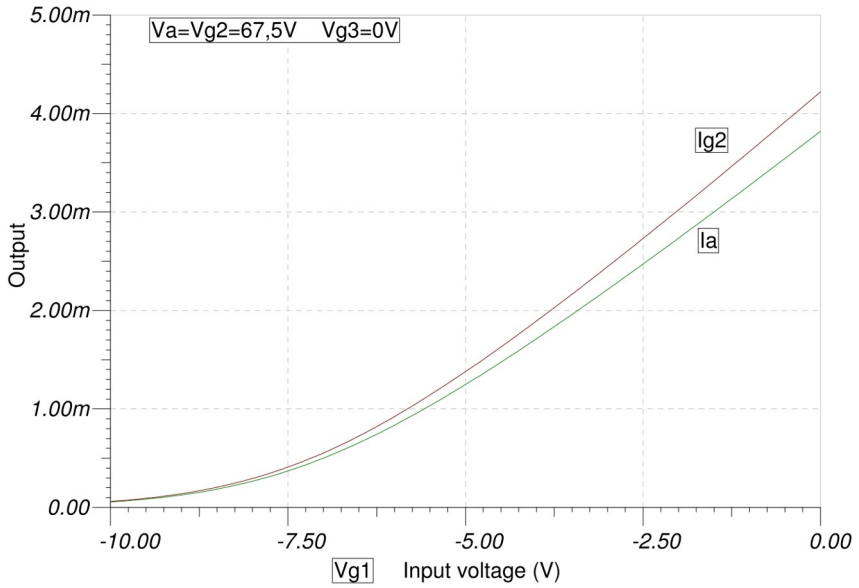
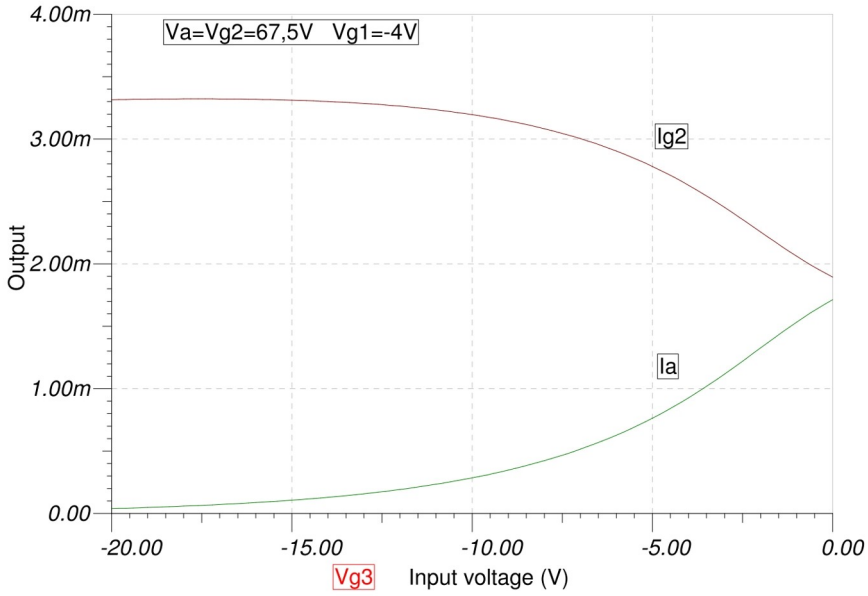
1R5T /Tungsram, Hungary/ Heptode Macro Model

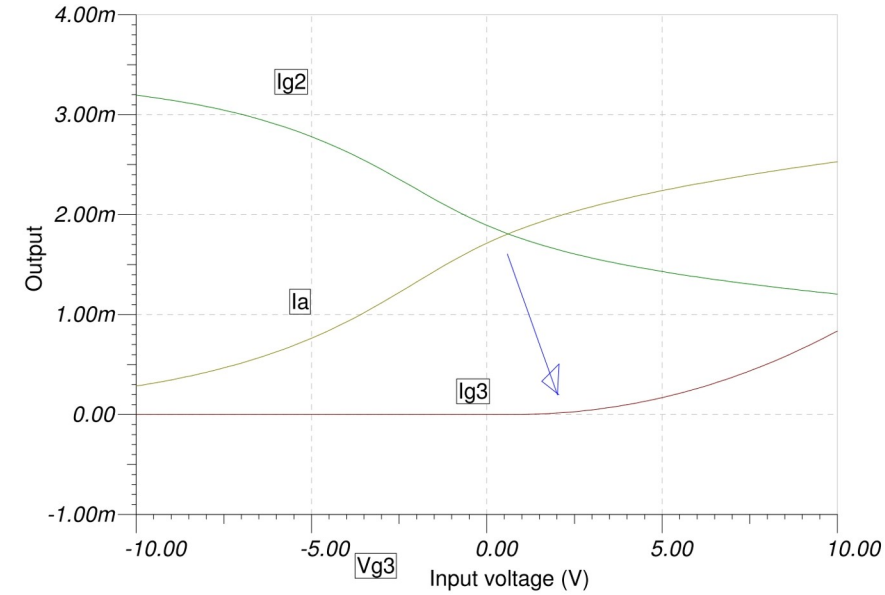
DC Characteristics

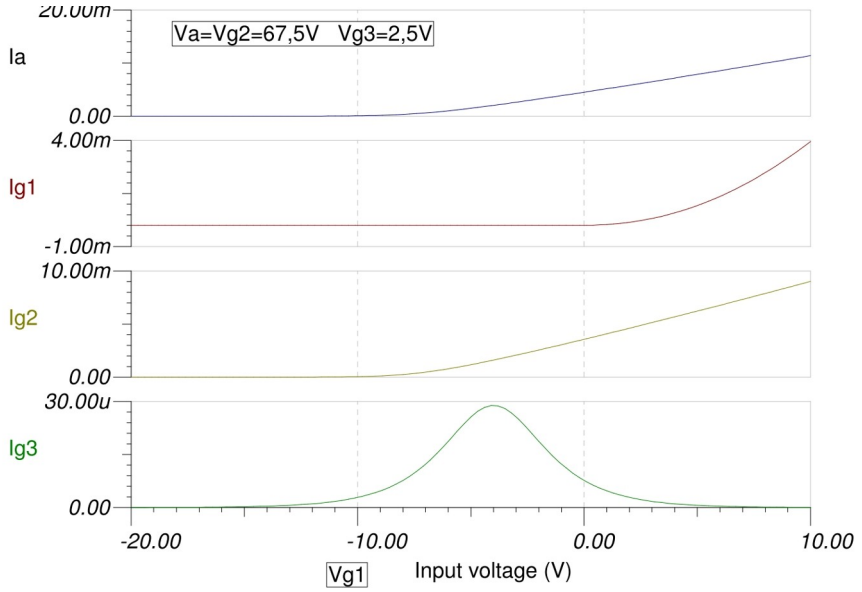


Mutual Characteristics

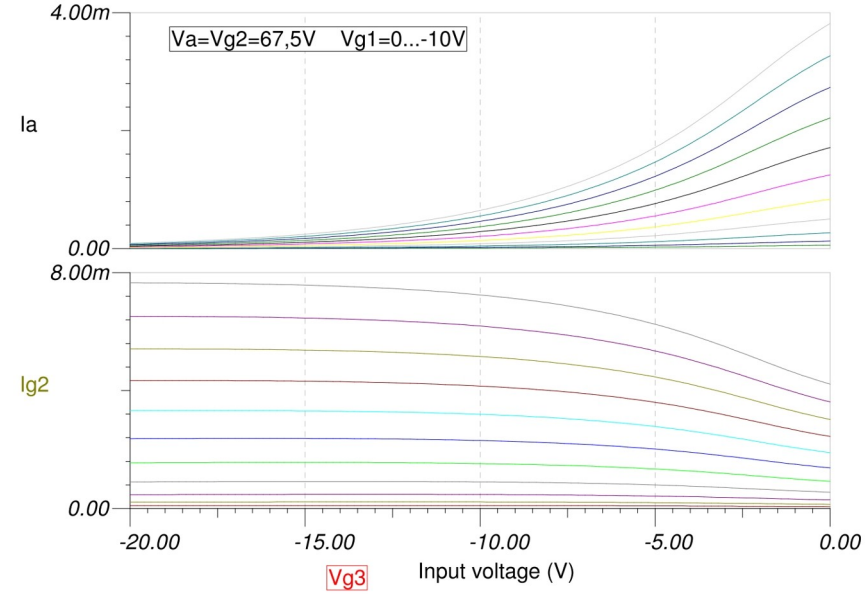




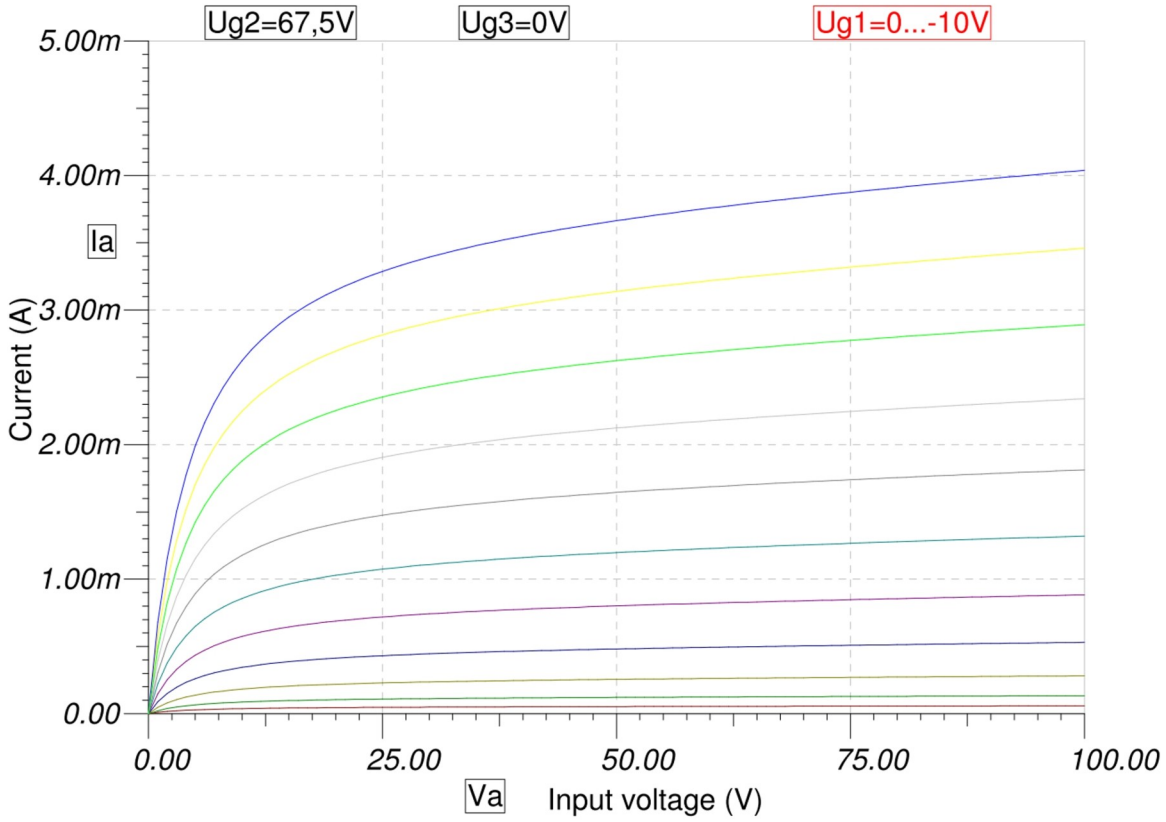




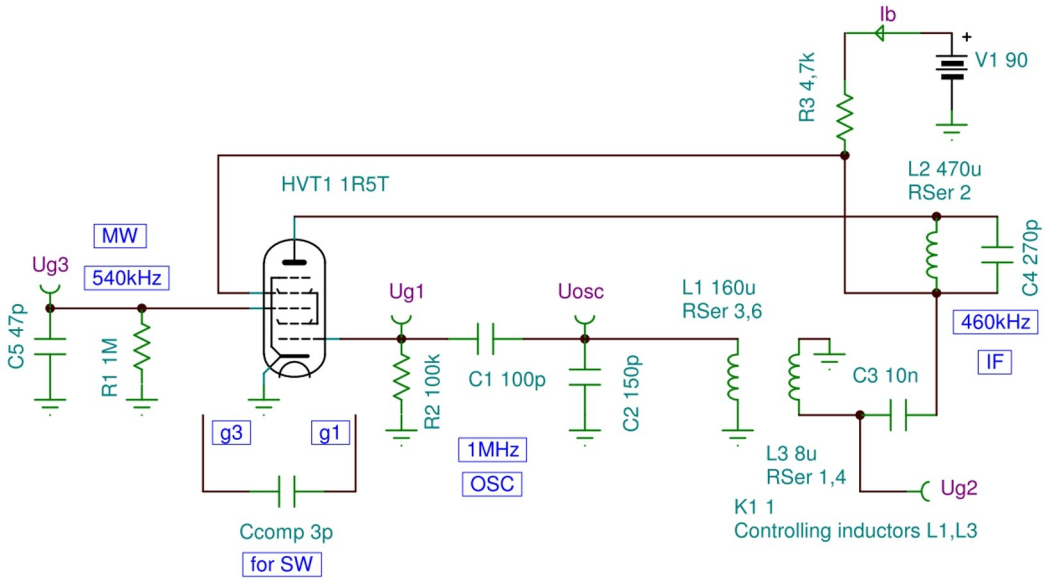
Output Characteristics



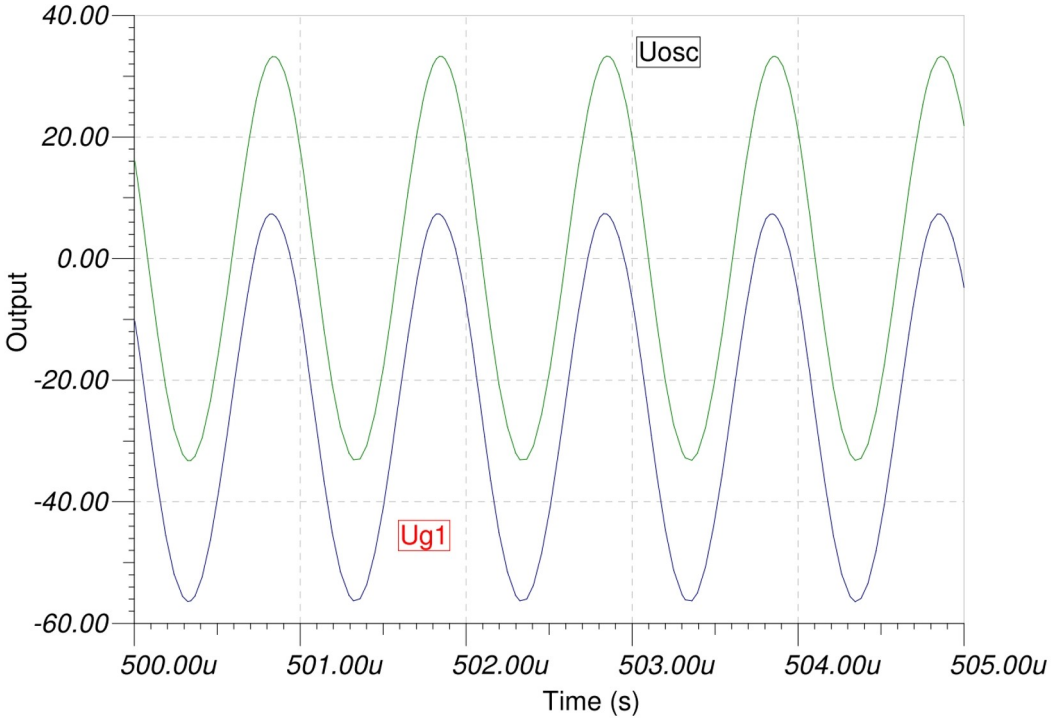
Anode Characteristic Curves



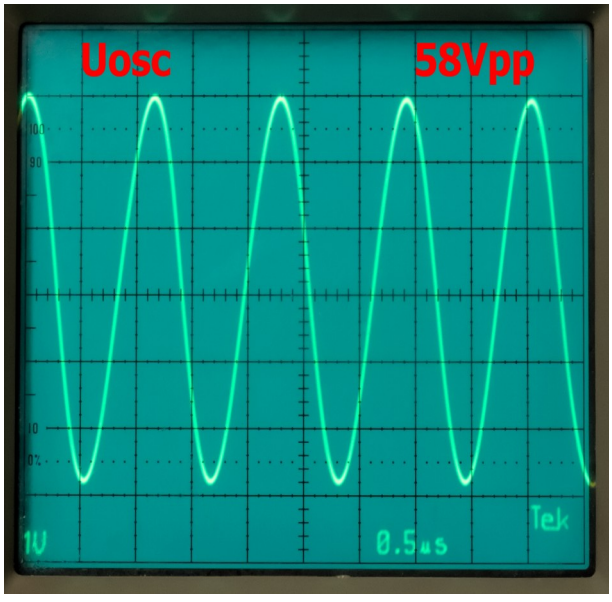
MW heptode-based self-oscillating pentagrid converter

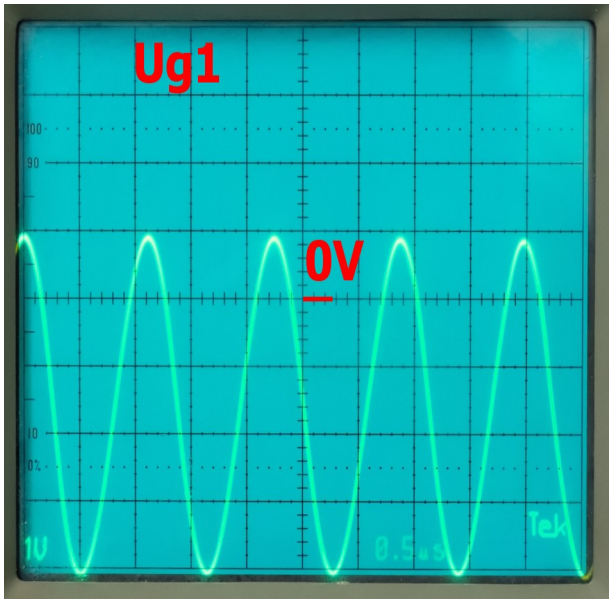


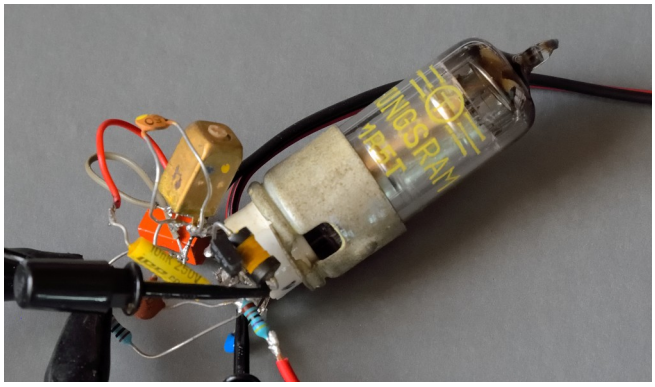
Model



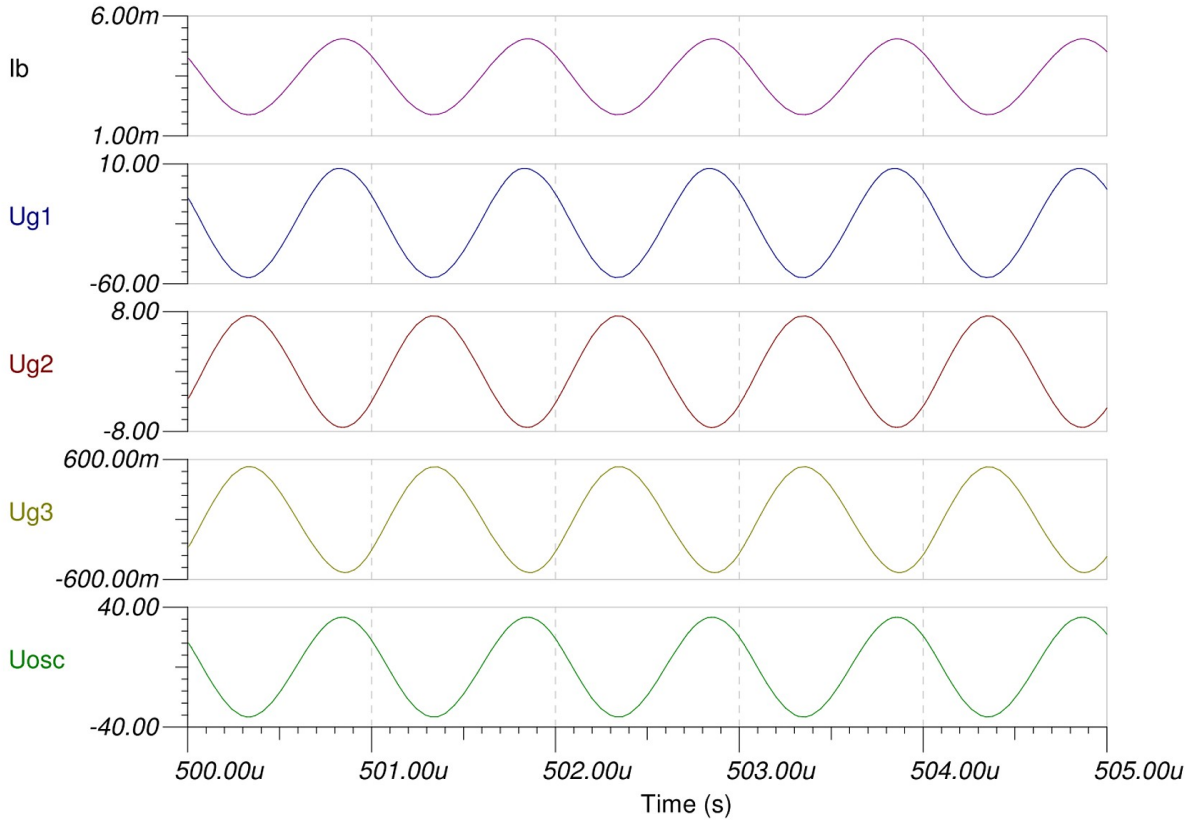
Real Tube



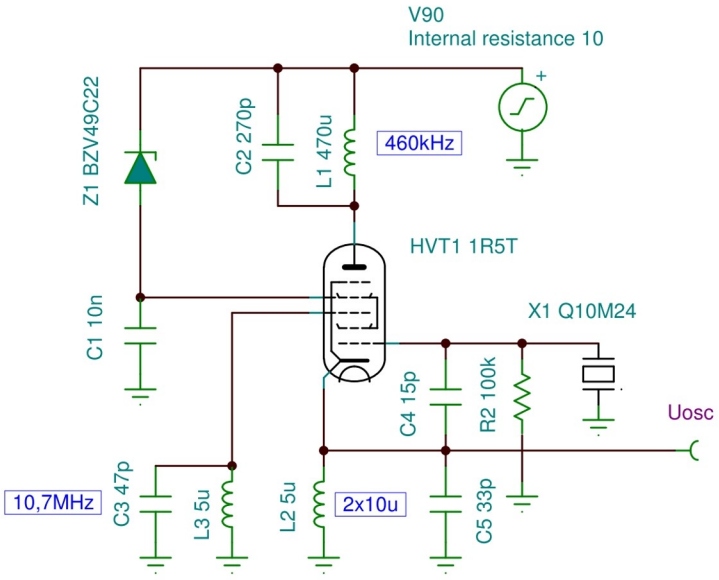


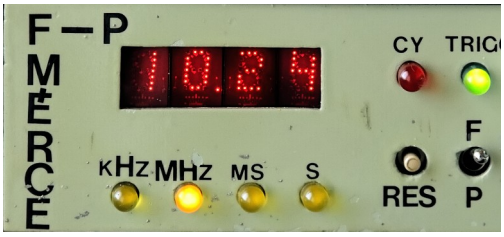


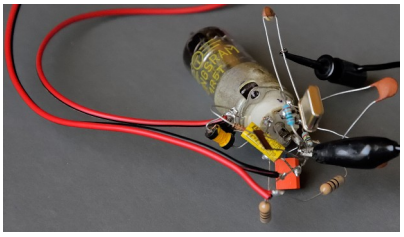
AC Characteristics



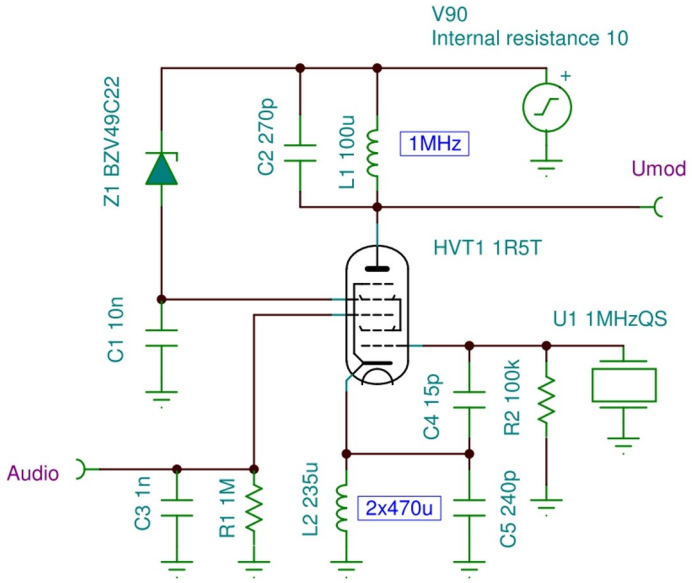
10.24MHz crystal oscillator / frequency changer circuit

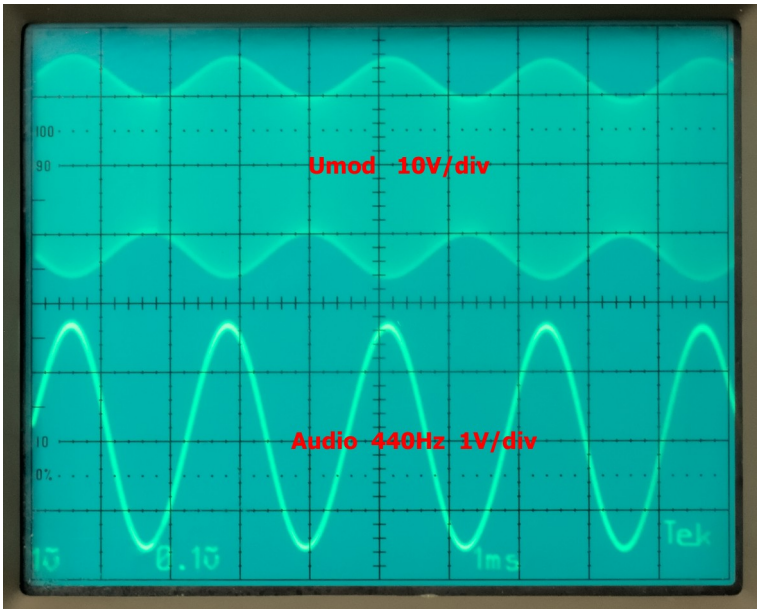


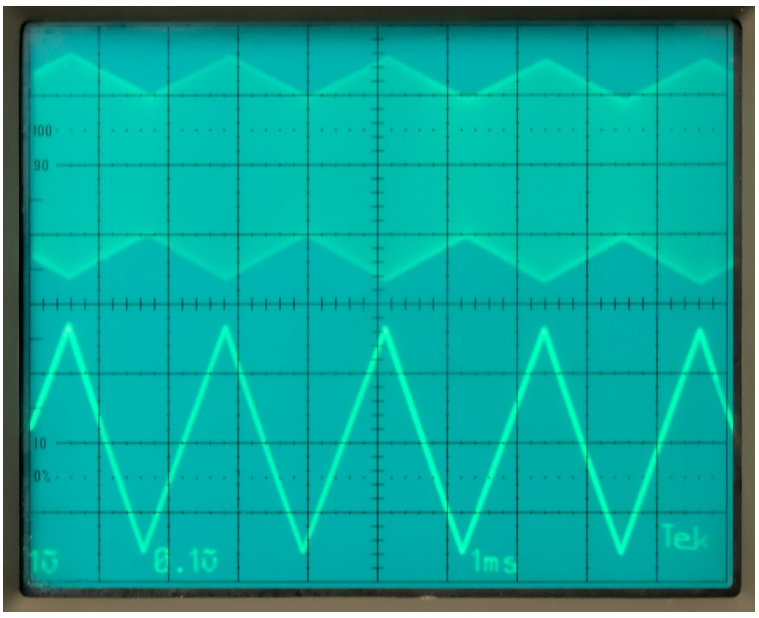




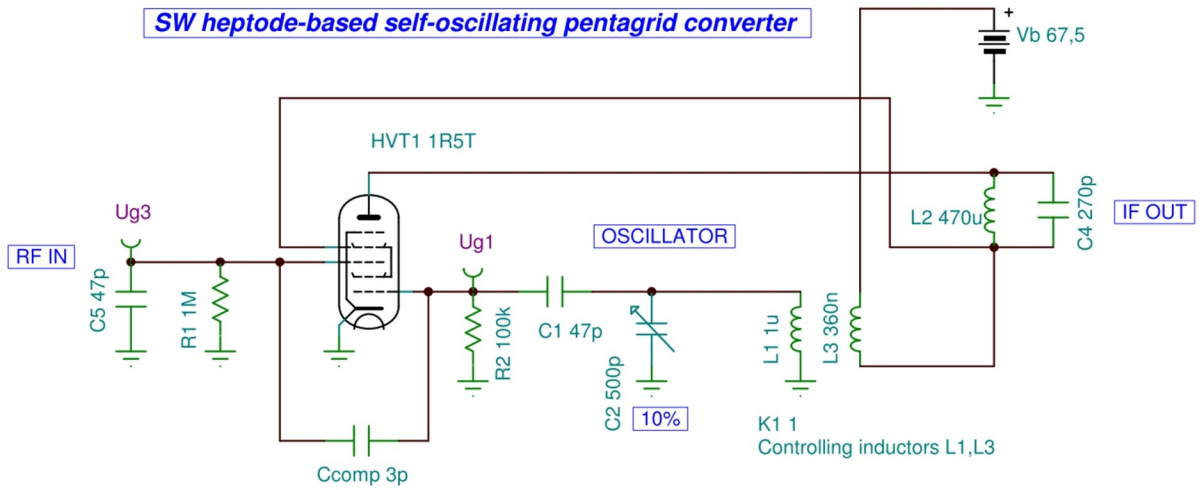
1MHz crystal oscillator / AM modulator circuit



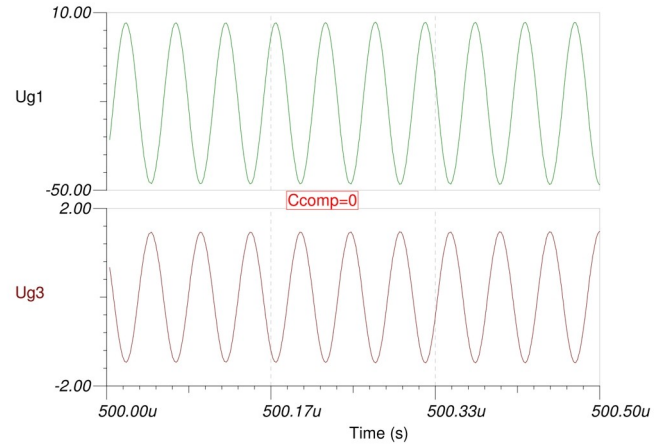


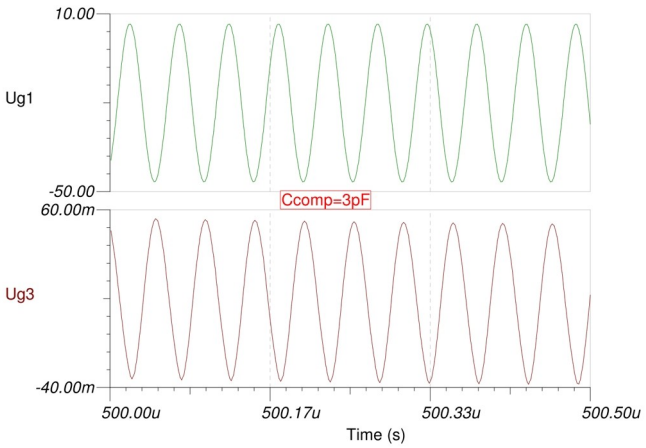


SW heptode-based self-oscillating pentagrid converter

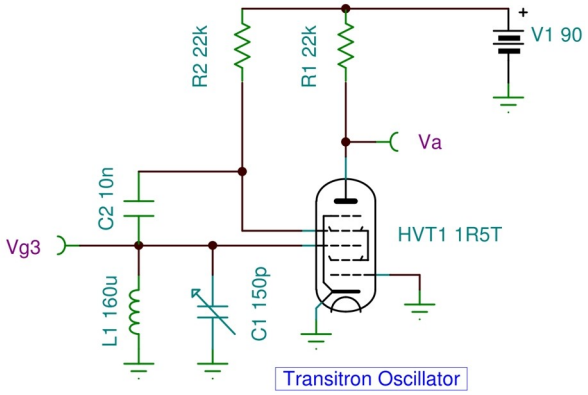


To obtain good results in the short-wave band, a compensating capacitor Ccomp must be connected between g1 and input (g3). Ccomp has the effect of reducing the inducted voltage on g3 (Cg2g3 inter-electrode capacitance) and therefore also the adverse effects of this voltage. This compensating capacitance can be obtained simply by twisting two, approximately one inch long, thin insulated wires. The receiver is tuned to the high frequency end of the band and Ccomp is trimmed for optimum sensitivity.

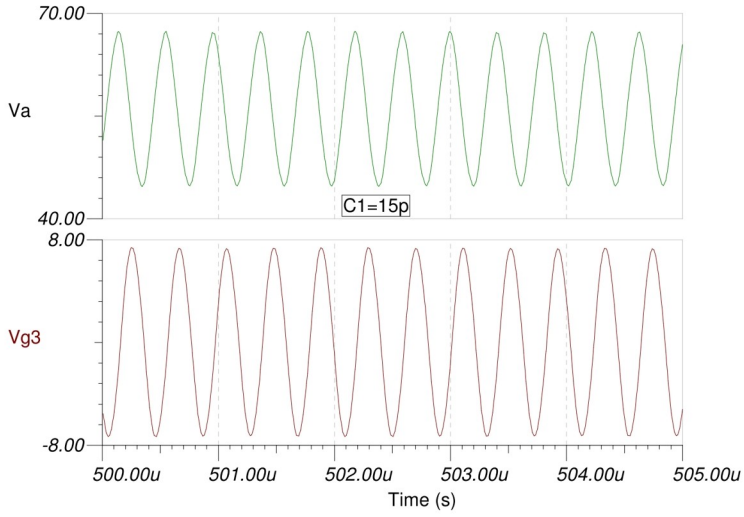


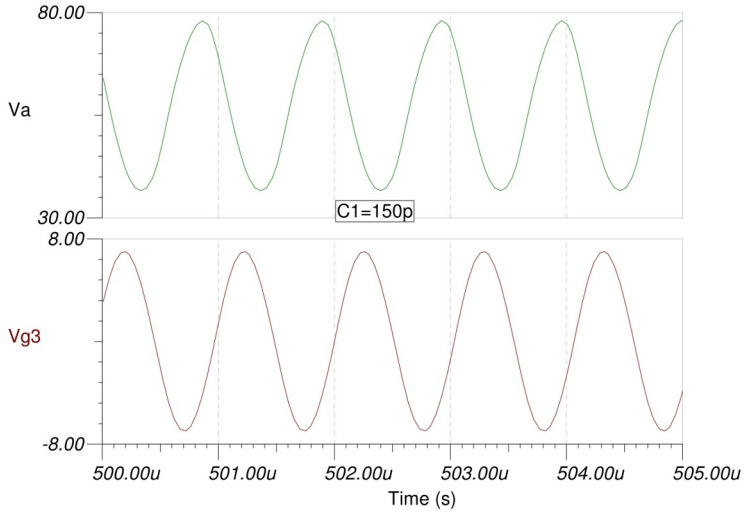


Transitron Oscillator



The screen grid (g2) has negative differential resistance with respect to the cathode and can be used to create oscillations.





This model is valid for the following tubes (within max. ratings):
DK91, 1R5