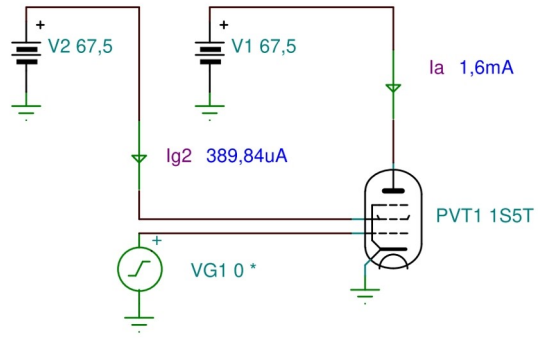
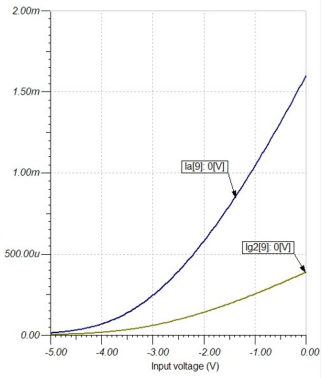
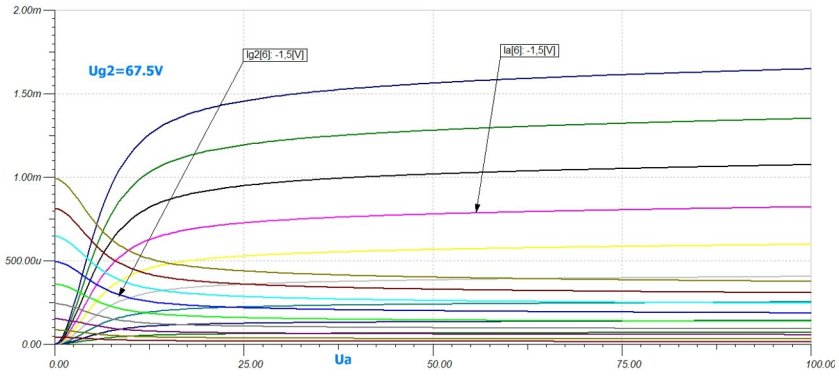
1S5T /Tungsram, Hungary/ Diode Pentode Macro Model

Pentode DC Characteristics



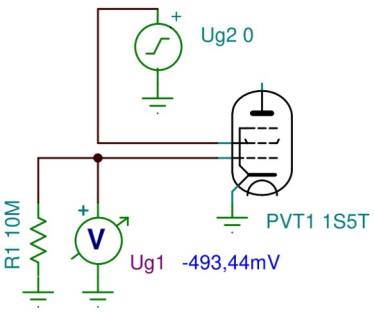


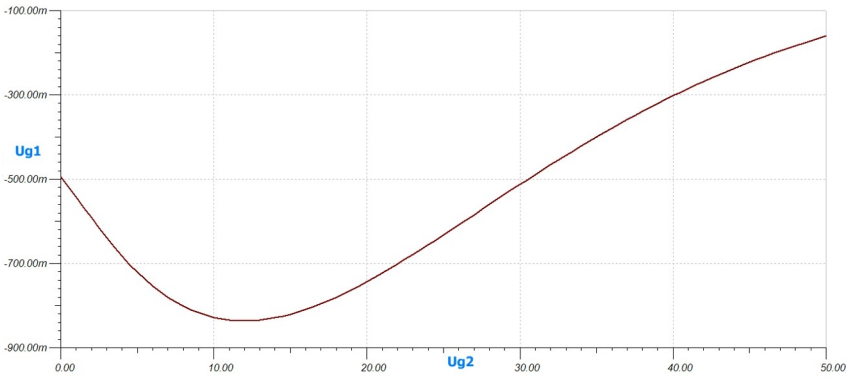
Output Characteristics



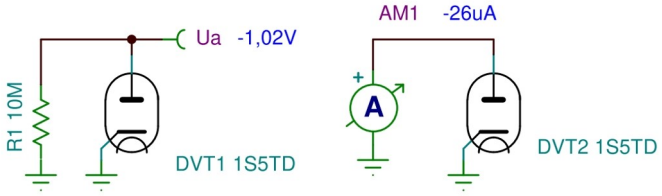
This model is valid for the following tubes (within max. ratings):
DAF91, 1S5, 1U5 (different connections)

$Ug_1 = f(Ug_2)$



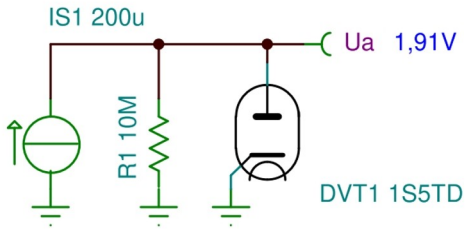


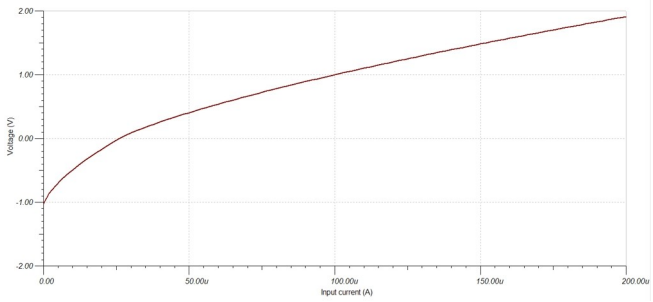
Diode Splash Current



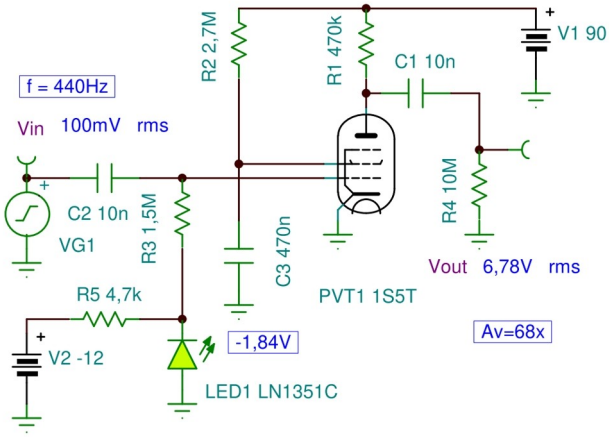
The anode current is not zero when the anode voltage is zero. A small anode current flows due to the energy distribution of the electrons emitted from the cathode.

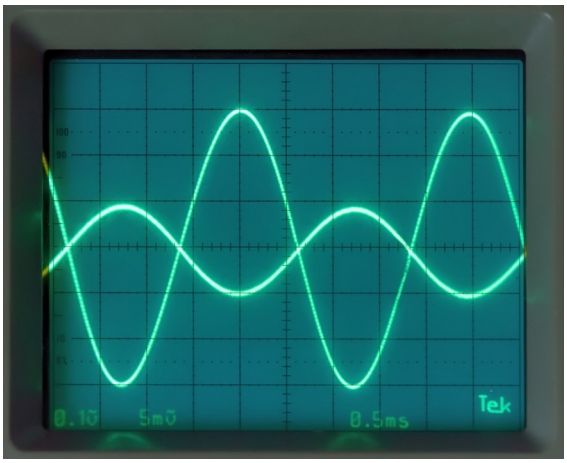
Diode Forward Characteristics

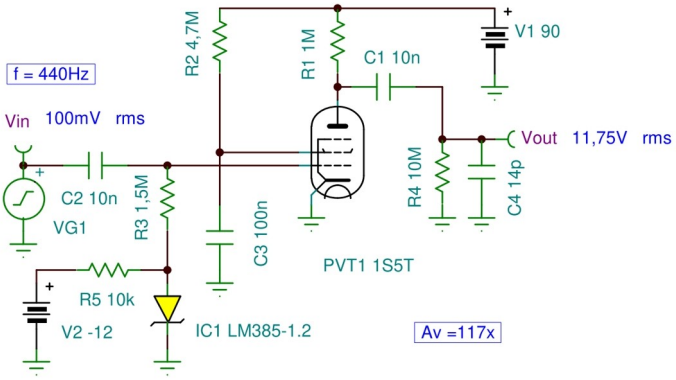


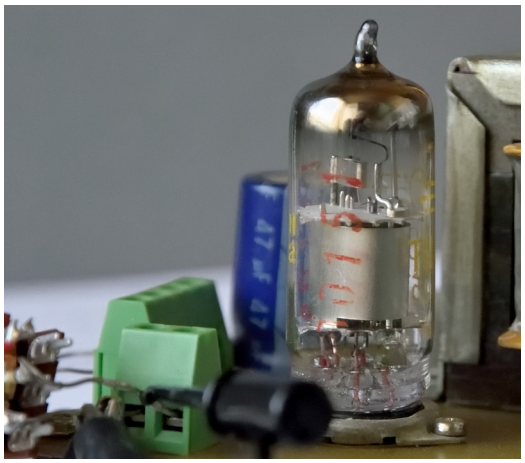


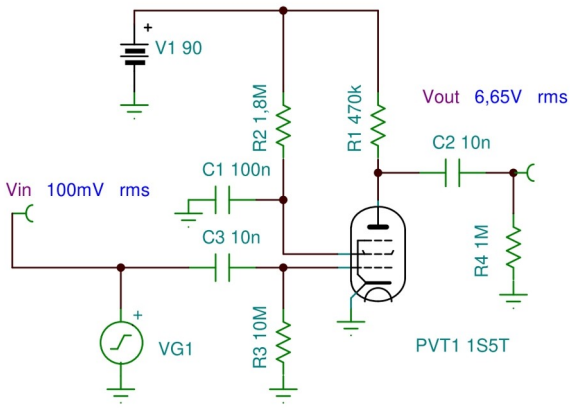
AF Voltage Amplifiers











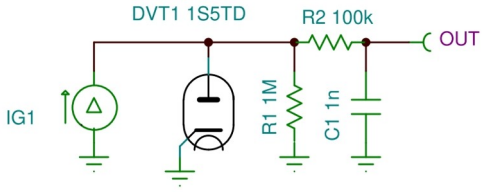
OPERATING CONDITIONS AS RESISTANCE COUPLED A.F. AMPLIFIER, CONNECTED AS PENTODE. ($V_{g1}=0$).

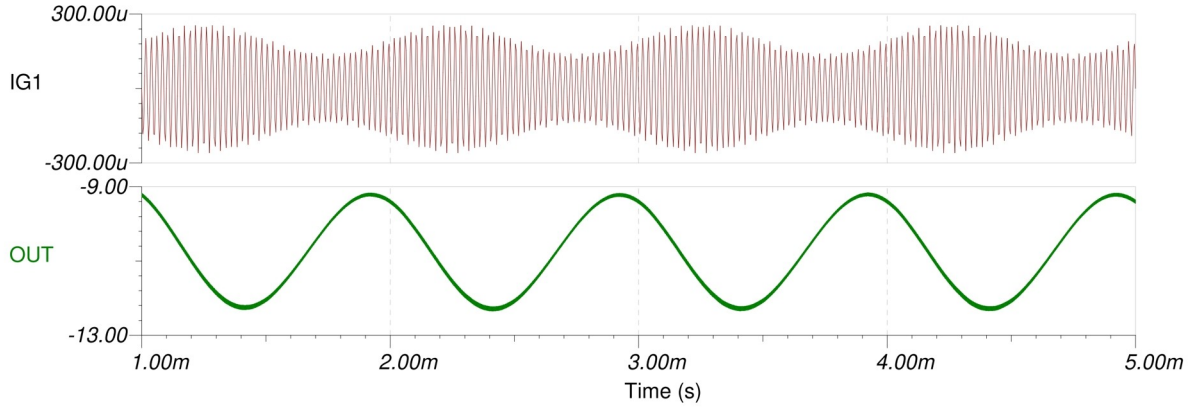
V_b (V)	R_a (M Ω)	I_a (μA)	R_{g2} (M Ω)	I_{g2} (μA)	$\frac{V_{out}}{V_{in}}$	V_{out} ($V_{r.m.s.}$)	D_{tot} (%)	$\frac{V_{out}*}{V_{in}}$	$V_{out}*$ ($V_{r.m.s.}$)	R_{g1}** (M Ω)
90	0.27	220	1.0	61	49	4.9	0.8	42.4	14.4	0.47
90	0.27	220	1.0	61	60	6.0	1.4	51.5	17.5	1.0
90	0.27	220	1.0	61	69	6.9	2.0	58.9	20.0	4.7
90	0.47	130	1.8	36	66.5	6.65	1.7	59	16.5	1.0
90	0.47	130	1.8	36	83.5	8.35	3.1	72.5	20.3	4.7
90	0.47	130	1.8	36	87	8.7	3.5	75	21.0	10
90	1.0	65	3.9	18.7	90	9.0	3.0	84	15.1	2.2
90	1.0	65	3.9	18.7	104	10.4	3.3	96.8	17.4	4.7
90	1.0	65	3.9	18.7	110	11.0	3.6	103.5	17.6	10

* D_{tot}=5%.
** Grid resistor of following valve.

ISSUE 3 — Mullard — DAF 91 1052-2

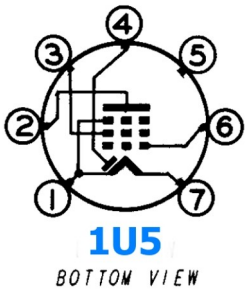
AM Diode Envelope Demodulator





BASING DIAGRAM

BASING DIAGRAM



Zabb Csaba