Subject: Re: what tube are you using?
Posted by Damir on Tue, 20 Dec 2005 17:21:50 GMT
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High-gm pentodes (say, D3a, E280F, E810F, EF184, 12BY7...) can be usable for single stage 300B driver with relative small anode load, say 8,2k-15kOhms. A=Ra*gm, and with Ra=10k and say, gm=5mA/V (possible with unbypassed Rk), we have A=50. But, internal anode resistance rp of the pentode is high, much larger then Ra - then our Rout = Ra // rp, and Rout ~ Ra - or 10 kOhms in this example.We can observe cascode like "quasy-pentode" without g2 current and less noise, but the same "problem" is present - large internal resistance. I tried 5687 tube here, see the "report" down low... For long time I experimented with various drivers, and best subjective performance/sound would be finally soldered in a nice box... Didn`t decide yet... P.S. Interesting comparison of various pentodes (and some triodes) can be found here:
http://www.pmillett.com/pentodes.htm