
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. $A=R_a*gm$, and with $R_a=10k$ and say, $gm=5mA/V$ (possible with unbypassed R_k), we have $A=50$. But, internal anode resistance r_p of the pentode is high, much larger than R_a - then our $R_{out} = R_a // r_p$, and $R_{out} \sim R_a$ - or 10 kOhms in this example. We can observe cascode like "quasy-pentode" without g_2 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>
