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Subject: Re: 300B cascode + grid choke Spice simulation

Posted by [Damir](#) on Sun, 04 Dec 2005 19:17:44 GMT

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Of course, this is the example of possible LF and HF driver "problems" when we can "blindly" put a grid-choke in existing circuit, without optimisation. OPT here is just a symbol, I use a similar circuit for OPT (with added leakage inductance). I'm aware about resonances, and  $Q = [(L/C)^{0,5}] / R_w$  - with "real" components it's not easy to get  $Q = 0,5$ , or critical damping, and some designing compromises are in order. Little boost on 10Hz probably isn't tragic, no NFB, and output stage is already "down" here. "Over all" frequency response simulation shows little "hump" in subsonic area, but simple enlarging of  $C_i$  can handle it, and I like it more that way :-). Cascode driver (few versions) is a just one option, I'll try some others, too. After "technical" optimisation, the listening test will be crucial:-). Thanks for comments and suggestions, and thanks for link - good summary :-).

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