
Subject: The eternal question: Tube friendly or not
Posted by [roland](#) on Mon, 02 Aug 2004 11:19:12 GMT

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Hi, Having read all I can find on tube friendly, damping factor etc, I have the following questions: If a tube amp has sufficiently low output impedance (and the resulting high damping factor), I could still be all right with just a couple of watts? It seems that the low damping factor in SETs is the real problem and not necessarily the low power output? After all, if the speaker has 100db/1w/m, 2-4 Watts should be enough, yes? In for example a PSE arrangement where the additional tube is used for lowering output impedance instead of doubling the power could do the trick??? Example: using 2 x 6as7 (one tube envelope) with for arguments sake a 5kohm primary would yield high enough damping factor to allow for higher Zmax on the woofer...???? Sorry if the question is foolish, but I am really curious on this:) Roland

Subject: Re: The eternal question: Tube friendly or not
Posted by [Wayne Parham](#) on Mon, 02 Aug 2004 12:39:23 GMT

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That's right, Roland. If the amplifier's damping factor is high, i.e. output impedance is low, then speaker impedance fluctuations won't affect response so much.

Subject: thanks. I like no nonsense answers. (nt)
Posted by [roland](#) on Mon, 02 Aug 2004 13:36:23 GMT

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Subject: Re: thanks. I like no nonsense answers. (nt)
Posted by [Yury](#) on Mon, 02 Aug 2004 14:10:11 GMT

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hello Roland! you wrote: 1. "If a tube amp has sufficiently low output impedance "if!!!! it's not always. it's depend of scheme, solution. we have to reach it first. the same as transistor amplifier. 2. "and not necessarily the low power output" - it's depend of drivers sound pressure. if you'll load any amp to driver 0.08 Pa - high damping factor of your amplifier don't take a big sound. but 0.4 Pa driver be able to makes biiiigggg loud! :) by 1W a propos, what do we mean about 1W to 4 ohm? U^2/R . ok. $U=2V$. nice. signal swing have to be about 5V by oscillograph,

couse it's mean square value.sorry my English.
<http://www.artmaydan.org.ua/stradivarius.html>

Subject: Re: thanks. I like no nonsense answers. (nt)
Posted by [Manualblock](#) on Sun, 15 Aug 2004 15:39:04 GMT
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Yury; What is that .08 PA number mean?

Subject: Re: thanks. I like no nonsense answers. (nt)
Posted by [Yury](#) on Mon, 16 Aug 2004 05:13:56 GMT
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Pa - means pascal. unit of sound pressure.
<http://www.artmaydan.org.ua/stradivarius.html>
