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Subject: Beta-10 two Pi

Posted by [MaTJ](#) on Mon, 19 Nov 2001 16:11:53 GMT

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Hi, A friend of mine wants to build some: good sounding, small, efficient, cheap speakers that can also do bass. Well doesn't everybody want that, but I thought a pair of two Pi's using beta-10 drivers would come a long way. But I have still two questions about this setup: I picked the beta-10 for him because it can be run in a small enclosure (same as alpha-8) while still offering decent bass. There is one problem however. Due to the lower qts. efficiency goes up above 1kHz and peaks at 3kHz. That isn't my idea of a nice sounding speaker. So we could put an inductor in series to roll off the highs but this would also give a 6dB steeper rolloff at XO and problems matching the tweeter. An alternative would be to use a notch filter at +/- 2.5kHz, Or just accept a larger enclosure and use an alpha-10 for better sound. What would be the best solution? Thanks in advance, Marijn

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Subject: Re: Beta-10 two Pi

Posted by [Wayne Parham](#) on Tue, 20 Nov 2001 05:25:35 GMT

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Personally, I prefer the Alpha 10. You can use filters to revoice the Beta, but I think the Alpha sounds good without massaging. It offers deeper bass and smoother midrange.

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Subject: Re: Beta-10 two Pi

Posted by [MaTJ](#) on Tue, 20 Nov 2001 09:12:56 GMT

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I believe most low qts. full range drivers actually do need some form of equalisation to sound balanced be it: acoustical (horns or an upper midrange absorber over the main cone), a fill in driver for bass and lower midrange, a notch filter or a digital eq. I don't want to listen to a lowther in a ported enclosure and the fostex 208sigma is almost always used with a notch filter. Baffle step correction is very often used by DIY'ers at the single driver forum, ofcourse a >2ft wide baffle is preferred :-). But we'll try running it without compensation first and see how we like the sound. I'll ask my friend to post some pictures and a review when he has finished the speakers. Thanks again, Marijn

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Subject: Re: Beta-10 two Pi  
Posted by [Wayne Parham](#) on Tue, 20 Nov 2001 10:16:01 GMT  
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Good luck with your project. Please keep us posted and let us know how it sounds!