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Subject: 1 Pls in 9ltr sealed box ??

Posted by [Scholl](#) on Wed, 04 Dec 2002 16:14:03 GMT

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I'm thinking over a sat\sub system for HT mains and surround and the 1 Pls in 9ltr closed boxes look good for a Q of +-1 115hz F3. Has anyone built anything close? How are the mid\highs on the Alpha 8s? New data sheets show a rise before rolloff. Is there a crossover on the 1s to smooth this?this might make for a nice punchy little box.Thanks, Scott

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Subject: Run 'em ported

Posted by [Wayne Parham](#) on Wed, 04 Dec 2002 18:18:41 GMT

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You could certainly run an Alpha 8 sealed, but as you've indicated, f3 would be pretty high at over

So in my opinion, there's no reason to use this speaker in a sealed box unless it is intended to be used as a midrange driver. As a midwoofer, I prefer to implement it in a bass-reflex configuration. It's bass is smooth, midrange is clear and all that's required for crossover is a 0.5mH coil to counter a slight bit of rising response.

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Subject: Re: Run 'em ported

Posted by [Scholl](#) on Wed, 04 Dec 2002 18:50:45 GMT

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Thanks, for the quick reply.The intent of the design is to be used with a subwoofer with no crossover on the Alpha 8. A closed box reduces cone motion below rolloff and provides a nice rolloff. The box volume is chosen due to a nice available box from Madisound.Thanks again

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Subject: My 2 cents...

Posted by [mollecon](#) on Wed, 04 Dec 2002 20:11:05 GMT

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It does look to me that 9 ltr's is a bit on the small size for this unit, even for a closed box. I say that based on the Thiele-Small parameters given for the Alpha 8's. I'd rather go for a box about twice as big, ~20 ltr's. But of course I can see the temptation of using an available & ready-to-use

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enclosure. I'm just afraid the sound will be a bit on the boomy side in the upper bass area, since the Qb will be well above 1... This might be faught with suitable damping of the box, though. And as you say - it will be a nice little kick-ass satellite!

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Subject: Re: Run 'em ported  
Posted by [Wayne Parham](#) on Wed, 04 Dec 2002 20:16:25 GMT  
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Sounds reasonable. Keep us posted and let us know how they turn out.

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Subject: Re: My 2 cents...  
Posted by [Scholl](#) on Thu, 05 Dec 2002 10:07:16 GMT  
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I don't think the Q will be much above 1, I'd actually like a Q of 1.1 for max power and a small peak to help offset baffle step.

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Subject: You're right...  
Posted by [mollecon](#) on Thu, 05 Dec 2002 18:58:49 GMT  
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The Qbox will be more like 0.85-0.9 I think & the Fres at ~115-120Hz (as you mentioned) - should give a -3dB point at ~105-110Hz. Seems to be fine for a satellite speaker.