Subject: -8* pi* Xover--
Posted by j.luis cruz . on Sun, 09 Oct 2005 18:20:34 GMT
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Hy.Wayne . Could use in the 8 Pi a crossover point of 3000 hz . I said this because a get a very goood price on a 4 x 10 horns that work over 2500 hz. thanks

Subject: Re: -8* pi* Xover--
Posted by Wayne Parham on Sun, 09 Oct 2005 21:35:55 GMT
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The crossover is optimized specifically for the components chosen and their physical locations. I cannot recommend deviations without specific analysis, but I don't think the midhorn with the Alpha 10 will reach 3kHz and provide good response. You would need to do a complete crossover redesign, and adddress the dip around 2kHz. I think for quality's sake, I'd rather attenuate the region above 2kHz and crossover there. There is also the matter of summing, and the existing design matches the mid and tweeter seamlessly. Wavelengths at 3kHz are smaller, so placement tolerances would be tighter. My gut feel is that you would be better off leaving the design as it is. I've done a lot of work to get it right.