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Subject: Re: Widerange midwoofers, specs, and x-o pts...

Posted by [Marlboro](#) on Wed, 23 Sep 2009 11:27:41 GMT

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If we are taling about comb filter distortion, this is what Jim Griffin said on PE back in 2006:

"Comb lining will dull the highs and will be most noticeable in the lack of air (dull highs) especially as you move off axis. Essentially, the high frequencies are rolled off as the ensemble of the tweeter outputs don't add up but start to cancel. Now the ear is less sensitive in the upper octave (10-20 kHz) you may not observe the full impact of this effect. But if you compare to an array that is properly designed, then there is no comparison as the proper array will yield a more airy (and accurate) sound."

Jim Griffin on PE 11-21-06

If you look at a frequency chart, it looks like you put your hand over it and drew around your fingers. However if you use the proper spacing of the speakers and match the correct crossover as described in the white paper, you can avoid the issue. And if you don't move but sit still when you listen, you may not be able to hear it at all even if you have a difficult problem. Pipedreams have comb filter distortion but because people sit still, its not audible.

But I'm not sure where this subject cam up in your original discussion.

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