
Subject: 80Hz horn with 2206

Posted by [andreas paulsen](#) on Wed, 08 Nov 2006 07:49:40 GMT

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Hellol have tried to model a 80Hz conical horn with hornresp using the jbl 2206. So far with some luck. I am thinking a 3 foot conical horn with a throat of 30 sq.inch and a mouth of 400 sq.inch. Similar to a old post in this forum about a 80Hz Horn. I am just unable to get the smooth response seen in the 9pi model of the 2226 done by Wayne. Orby the models done elsewhere by volvotreter for the EV15L woofer. Suggestions about throat size, back chamber, front chamber are more than welcome? Cheers Andreas

Subject: Re: 80Hz horn with 2206

Posted by [Wayne Parham](#) on Wed, 08 Nov 2006 14:31:17 GMT

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a 2206.9Pi mid-bass horn dimensions

Subject: Re: 80Hz horn with 2206

Posted by [andreas paulsen](#) on Wed, 08 Nov 2006 14:49:03 GMT

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exactly! But I seem to get more ripple in the response when I put the parameters for the 2206 instead of 2226?/andreas

Subject: Re: 80Hz horn with 2206

Posted by [Wayne Parham](#) on Wed, 08 Nov 2006 18:29:52 GMT

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Yes, the driver is an important part of the system, and its electro-mechanical parameters are a determiner of overall performance.

Subject: Re: 80Hz horn with 2206

Posted by [andreas paulsen](#) on Wed, 08 Nov 2006 20:40:48 GMT

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Hello again! Is this completely out of line? I do not like the ripples, but as the horn will be placed in a corner it might flatten itself out. This is the first time I try to add pictures, so be patient with me.
/andreas

Subject: Re: 80Hz horn with 2206

Posted by [Wayne Parham](#) on Thu, 09 Nov 2006 01:27:54 GMT

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Looks pretty good to me. I didn't double check your inputs; I'm assuming you've done that right. The radiation angle is half-space, which is about what you'll have indoors in average sized rooms. If placed near corners or if groups of horns are used, you'll have a little better response. As it is, your horn is flat 90Hz to 400Hz +/-2dB in half-space and I think that's pretty good.
