Subject: Bandpass for JBL 2240H
Posted by Rapid on Fri, 11 Aug 2006 23:02:31 GMT
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Hello!I'm looking at a 4th order bandpass sub with a JBL 2240H, but a simple bassreflex tuned to 25Hz seems to give higher maximum SPL. Simulations were done in WinISD. Any suggestions on a design? Low frequency limit should be about 20-25Hz.I tried rear chamber=187 l, front chamber=41 l, tuning freq=56Hz.Thanks!
JBL 2240 specs.

Subject: Re: Bandpass for JBL 2240H
Posted by GM on Mon, 14 Aug 2006 02:04:43 GMT
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Greets!Forget BP unless tuned high, and to get to 20 Hz with any authority will require a huge cab, so how big can you tolerate and what's the desired XO point?GM

Subject: Bassreflex suggestion
Posted by Rapid on Mon, 14 Aug 2006 16:46:06 GMT
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Hi GM!ok. I've done some simulations as you can see in the picture. I think 200litre is the maximum I can tolerate since I live in an apartment now. Crossover frequency is about 80 Hz. To me, it seems like there's no point going larger than 200litres. I only gain about 3 dB in maxspl 20-25Hz by going to 310litres and the loss in magnitude for the smaller box is not a problem since I'll use an equalizer for room compensation. I'll probably have +-10dB peaks in the bass anyway I've got two 2240s so maxspl should be atleast 116 dB, right?Does it seem reasonable?

Subject: Re: Bassreflex suggestion
Posted by GM on Tue, 15 Aug 2006 02:44:31 GMT
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Greets!Bummer, I was hoping you'd try a big folded TL that sims 100 dB/W/m half space from 30-70 Hz. You could use it as a platform to mount your mains/whatever. Two would get a bit unwieldy though unless stacked on top of each other against the wall.In theory, you'll get ~112.78 dB/600 W/m/20 Hz/half space peaks with one, so summing two = ~115.79 dB in 'stereo', but

ignoring room gain it will be less due to thermal power compression.GM