Subject: A "Slim" sub based on four JBL 2226s
Posted by xcortes on Tue, 21 Nov 2006 23:57:24 GMT
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My kids have allowed me to use 25 cm (10 in) of their playing room for installing a 5.1 setup.These days I am into SET amps and high efficiency speakers so I need speakers that are at least 93dB efficient.I'm thinking of building five Pro 3s that are 10" deep (the surrounds will be in a bookcase on the back that will also house the amps and processor so they don't count for the 25 cm). A plasma TV is slim enough (and I already own it) and I only need a subwoofer.My idea is to build a slim tower about 40cm wide, 180 cm tall and 25 cm deep. Internal volume should be around 125 liters. A closed box simulation shows f3 at around 90 Hz BUT, by using a 1,200 watt amp I can get 106 dB at 20HZ or 110 dB at 26Hz with -3dB at 20 Hz. I can use a PLLXO 12dB per octave low pass at around 30 HZ and voila: a subwoofer that goes down to 20 HZ at 110 dB and that is slim enough to satisfy my kids and my ego :^).I have a commercial subwoofer that I can sell for the cost of the four 2246s and the 1,200 watt amp so we can assume that cost is not an issue Am I crazy?xavierps Actually my kids are only 2 and 1 and they would allow me anything but this is THEIR room not mine.

Subject: Re: A "Slim" sub based on four JBL 2226s
Posted by Wayne Parham on Wed, 22 Nov 2006 02:53:06 GMT
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Sounds like an excellent plan. I really like JBL 2226's. However, I would go with a slightly overdamped vented alignment. It will get a bit more extension, and being overdamped, the group delay will be good.