Subject: 7 Pi JBL 2226 questions
Posted by RichardC on Mon, 04 Feb 2002 17:40:17 GMT
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Hello all,I, like so many others visited the JBL tent sale and bought a 4508 enclosure w/2226J's. I am very familar with JBL's reputation, so I bought it primarily because of the "good deal". Now that I have them, I am not sure that they are the "best" drivers for me. I have a 250+ sq. ft. room that I would like to setup for home theater / music. I have 3 Altec Model 14's for mid bass and up and I wanted to use subwoofers in the rear corners. My questions are: would the 7 Pi 15" design work well as a subwoofer only? Can I get lower bass extension by using a larger box? The corner horn configuration seems to extend the bass response. I will Bi-amp with a bridged M2600 Peavey amp (mono low bass), crossover at

Subject: Re: 7 Pi JBL 2226 answers
Posted by Wayne Parham on Mon, 04 Feb 2002 21:09:59 GMT
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The JBL 2226 driver is best used from 40Hz up. For use below 40Hz, I suggest either trading or selling the Model 14's or the 2226's and getting something like JBL 2245's instead. Put them in PiAlign'ed 10 cubic foot cabinets. There were several 2245's in that tent sale, and you may be able to find some good deals from individuals who have decided it's too much box for their

back.

Subject: Re: 7 Pi JBL 2226 answers
Posted by RichardC on Tue, 05 Feb 2002 00:00:06 GMT
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Wayne,Thank you for your honest reply. I have been reading more and more of your replies to various posts over the last year or so and I am surprised at the amount of detail in them. No one should ever fault you for giving a flip answer to a serious question. I really do appreciate this forum.Do you think that a pair of JBL 2235's would be too small for me to use as subwoofers? Or should I use the 2245's so that I would never run out of bottom end? Do you have a 10 cubic ft. version of the 7 Pi or were you thinking of another design?Thank you again,Richard

Subject: Re: 7 Pi JBL 2226 answers
Posted by Wayne Parham on Tue, 05 Feb 2002 03:05:37 GMT
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JBL 2235's are superb drivers, and you can more bass extension from them at the expense of reduced system output, when compared to 2226's. Top end is about 115dB at maximum output, but then again you can expect a 30Hz cutoff instead of 40Hz. 2226's provide response down to 40Hz but they give you 125dB at maximum output. So that's the comparison. These are in boxes from 2.5ft3 to 5.0ft3. If you can make the box twice this size, between 6ft3 and 10ft3, then 2245's

49" x 25" x 13" having the same port dimensions. See the drawings in the "Pi Speaker Alignment Theory" for cabinet layout information.

Subject: Re: 7 Pi JBL 2245 design
Posted by RichardC on Tue, 05 Feb 2002 15:06:48 GMT
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Thank you Wayne,Since I really like the Altec Model 14 for the mains at 114 max SPL (4 ft), I will use one Pi 7-18" as a subwoofer only. I build my own electronic crossovers and filters using Electronic Workbench V4.1 software and I get great predictable results. It has a Bode plotter (spectrum analyzer) that gives -3Db points, etc. 3rd order filters are no problem and since this subwoofer will be behind the left main at a diagonal, I will need to have as steep a crossover as possible, maybe 80Hz or so. Bi-amping and electronic filters are so great, no passive network loss.I looked at your Pi 7 design (math) and it looks like "D" is about 12". That constant seems to make the exterior box dimensions come out about 49" x 25" x 13". Do you sell the plans for this design? If so, I would like a set.I will sell the JBL 4508 W/2226J's here in Atlanta as I really have no use for them. I couldn't believe that JBL had free shipping on this 100+lb speaker!Thank you again for responding,Richard

Subject: Re: 7 Pi JBL 2245 design
Posted by Wayne Parham on Tue, 05 Feb 2002 21:42:49 GMT
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You have mail!

Subject: Re: 7 Pi JBL 2245 design
Posted by Tom Brennan on Tue, 05 Feb 2002 23:37:23 GMT
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Wayne--In my room, along the wall (2 boundary enviornment) and with the 6db at 30hz EQ of the Parts Express plate-amp used, I'm getting 25hz flat from a pair of 4648s, this according to my RTA with the mic placed where my head is when listening. I expected some gain in extension because the 4648 is rated 45hz F3 into a hemisphere but I didn't expect 25hz. I know that EQ below F3 with a vented box is generally a no-no but the 4-15s are so lightly stressed it doesn't hurt. Sound is deep and VERY dynamic, I'm very pleased.

Subject: Re: 7 Pi JBL 2245 design
Posted by RichardC on Wed, 06 Feb 2002 01:53:03 GMT
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Wayne,Thanks for the plans. That and some testing in my particular room should do the trick. I will keep an eye out for a 2245.Thank you for all of your help,Richard

Subject: Re: 7 Pi JBL 2245 design
Posted by Wayne Parham on Wed, 06 Feb 2002 02:53:27 GMT
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You betcha. JBL 2226's are plenty for many rooms. In small to medium size rooms, room gain brings up the bottom end quite a bit. But in larger rooms, the added extension from larger 2245's

is helpful.

Subject: Re: 7 Pi JBL 2245 design
Posted by Tom Brennan on Wed, 06 Feb 2002 22:25:07 GMT
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Wayne---I just thought you might be interested in how deep the 2226s have plumbed for me. I only expected the 4648s to be flat to 40 or so, the low bass I'm getting is a happy and unexpected bonus.