Subject: help: pi alignmemt for JBL E155 (box & port)
Posted by xsheya@yahoo.com on Wed, 03 Dec 2003 13:53:31 GMT
View Forum Message <> Reply to Message

Hi All,I am new to the business. And need some helps from all you seniors:I bought JBL 2402H, 2447J and E-155H for 4-pi 18 bass reflexseries. But I can not run Wayne's DOS progrm on my SUN workstationto get the proper box volume and port size/length. Any one can helpme run the number, please? I am planning to active cross around 1kHz for 2447J and E-155H.Thanks a lot!Here is the spec for E-155H:fs 30, qts 0.2, qms 2.2, qes 0.22, vas 424.8 lites, eff 4.9, pe 300w, Xmax 5.08mm, re 6 ohm, le 1.4 mH, sd 0.114 m*m, bl 25 N/A, m 125 gShau

Subject: Re: tune to 30Hz, if it possible (NT)
Posted by xsheya@yahoo.com on Wed, 03 Dec 2003 13:58:00 GMT
View Forum Message <> Reply to Message

Hi again,I forgot to mention: tune to 30Hz, if it is possible for E-155H?Regards,Shau

Subject: Re: help: pi alignmemt for JBL E155 (box & port)
Posted by Wayne Parham on Wed, 03 Dec 2003 23:08:35 GMT
View Forum Message <> Reply to Message

PiAlign recommends a 3.0ft3 cabinet tuned to 56Hz using a port that's 5.25" x 9.375" and 7.25" long. Performance is very good using this cabinet. I wouldn't recommend tuning at 30Hz unless the cabinet were made much larger - around 8ft3 - in which case you will have generated an EBS alignment. Trouble is that this will reduce output below 100Hz -6dB.The PiAligned 3ft3 56Hz cabinet provides flat response with f3 of 60Hz. The 8ft3 30Hz EBS alignment is -6dB down below 100Hz, but stays at this level down to 30Hz and the shelf is flat. Both are pretty good solutions, depending on your application.

Subject: Re: help: pi alignmemt for JBL E155 (box & port)
Posted by xsheya@yahoo.com on Thu, 04 Dec 2003 13:01:55 GMT
View Forum Message <> Reply to Message

Thanks Wayne for the informative input!Is that mean 2226J will out-perform E-155h around 40Hz? If so, I will go for 2226J instead of E-155h. The reason I bought E-155h is that it is 18" with lower

fs(30Hz vs. 40Hz of 2226J).Best Regards,Shau

Subject: Re: help: pi alignmemt for JBL E155 (box & port)
Posted by Wayne Parham on Thu, 04 Dec 2003 22:15:24 GMT
View Forum Message <> Reply to Message

These drivers are really tuned for high-output output above 40Hz. They can be used below this frequency, but they aren't designed with specs that make them well-suited for operation in the 20Hz - 40Hz octave. Looks for drivers with more moving mass and a little bit higher Q.

Subject: Re: Thanks Wayne!!
Posted by xsheya@yahoo.com on Fri, 05 Dec 2003 12:32:08 GMT
View Forum Message <> Reply to Message

NT
