Subject: jbl 2205 vs eminence omega 15
Posted by Joep Ritterbex on Mon, 15 Dec 2008 19:55:55 GMT
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I am building the pispeaker 4, but i'm having a dillema.I can buy 2 jbl 2205's for a good price. But are jbl 2205's better sounding than the eminence omega?thanks..

Subject: Re: jbl 2205 vs eminence omega 15
Posted by Wayne Parham on Mon, 15 Dec 2008 20:41:48 GMT
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The 2205 woofers are really nice. I used those for a long, long time. The 2226 drivers handle more power and are very clean, so they're the latest and greatest of this line of drivers. But I don't consider the 2205 as a step down just because they're obsolete. They're wonderful drivers.

Subject: Re: jbl 2205 vs eminence omega 15
Posted by Joep Ritterbex on Tue, 16 Dec 2008 09:58:16 GMT
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Thanks for your answer, but I wanted to know if there is a big difference between the jbl 2205, and the eminence omega 15.

Subject: Re: jbl 2205 vs eminence omega 15
Posted by Wayne Parham on Tue, 16 Dec 2008 17:34:43 GMT
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I like the Omega 15 but it is not as clean sounding as the 2205 at midrange frequencies. The 2205 has a shorting ring for reduced distortion, and you can really hear the difference, especially when used as a midwoofer. Its successors, the 2225 and 2226, have additional incremental improvements, mostly improved heat control.The things that are most important in a high-efficiency midwoofer like this all revolve around midrange quality, so cone construction (flex damping) and motor construction (immunity to flux modulation) are what set apart the good/better/best quality points. The JBL 22xx series has long set the standard, in my opinion, for large format midwoofers.If intended use is purely below 100Hz, there is probably little to be gained by using the more expensive JBL drivers. But if the driver will be used up to even just 300Hz, I'd

because the woofer and midrange are allowed to overlap in the lower midrange band, to mitigate

floor bounce and high-frequency room modes just under the Schroeder frequency. The quality difference is even greater when the woofer is used up to the frequency where DI begins to

loudspeaker.

Subject: Re: jbl 2205 vs eminence omega 15
Posted by jeff p on Tue, 16 Dec 2008 23:14:27 GMT
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i saw this thread just now. i was searching to see if anyone had discussed using a 90x60 horn instead of a 90x40, i saw the B&C me20 on ebay....i'm guess it would completely alter Wayne's 4pi design since it has different vertical dispersion, but wanted to search and see if it was discussed.anyway here is the link to the B&C 15.http://www.audioroundtable.com/PiSpeakers/messages/17110.htmlwould using a 99db woofer in place of the 97db woofer require any crossover changes?also would it make the efficiency of the 4pi go up a bit or is it a immaterial difference?

Subject: Re: jbl 2205 vs eminence omega 15
Posted by Wayne Parham on Tue, 16 Dec 2008 23:50:53 GMT
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I would not want to use a horn with vertical pattern too large. For one thing, nulls appear above and below the forward axis and it is best if the nulls are set outside the horn's vertical pattern. And for another, radiation at large vertical angles really only serves to increase ceiling and floor reflections, which is an undesirable property. For this reason, all of my horn loudspeakers are designed to use a 90°x40° horn.Matching directivity in the vertical and the horizontal planes

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Subject: Re: jbl 2205 vs eminence omega 15
Posted by BtHarris on Wed, 17 Dec 2008 00:04:20 GMT
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In the same thread about the B&C 15" Wayne says they're a drop in replacement for the JBL2226:
http://www.audioroundtable.com/PiSpeakers/messages/17105.html

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