Subject: Why mount crossover components to separate board?
Posted by Silas on Mon, 10 Sep 2012 17:10:56 GMT
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What is the reason behind mounting the crossover components to a board, and then mounting the board to the cabinet? Couldn't I just mount the components to the cabinet directly, a la below?

Subject: Re: Why mount crossover components to separate board?
Posted by mantha3 on Mon, 10 Sep 2012 21:31:50 GMT
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The board just makes it easier... Easier to do the x-over build and use the soldering iron. I like to use a 1/4" piece of something that I can drill holes in. Zip tie on Caps, Inducers since they are heavy... Goop em with silicone...

You can do what you are thinking direct and not use a board.

Subject: Re: Why mount crossover components to separate board?
Posted by mantha3 on Mon, 10 Sep 2012 21:33:24 GMT
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PS - I see 5 larger resistors in the middle. Are these the 100W spot? What are these?

Subject: Re: Why mount crossover components to separate board?
Posted by Silas on Tue, 11 Sep 2012 08:36:06 GMT
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mantha3 wrote on Mon, 10 September 2012 16:33PS - I see 5 larger resistors in the middle. Are these the 100W spot? What are these?
Those are 5 20W, 40R resistors, to be wired in parallel to achieve 100W at 8R.

Subject: Re: Why mount crossover components to separate board?
Posted by mantha3 on Tue, 11 Sep 2012 12:55:59 GMT
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Ahhh, that is what I was thinking.

I did notice in the X-Over schematic by Wayne it mentions that this resistor R3 is "Mounted off board". Is this due to heat or something?

I'm going to be building soon and the X Over is something I'll do soon. Doing the 5 resistors like you will save some $$$ so I think I'll copy you on this.

Keep posting build stuff/photos. I'll do the same.

Subject: Re: Why mount crossover components to separate board?
Posted by Silas on Tue, 11 Sep 2012 17:18:19 GMT
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Will do. I'm actually keeping a build thread on AVS, titled something like "JBL and 4Pi theater...college style!" I won't link to it, but you can search for it if you like. PM me if you have any questions.

Subject: Re: Why mount crossover components to separate board?
Posted by Wayne Parham on Thu, 13 Sep 2012 04:32:29 GMT
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Sorry I missed this earlier:

mantha3 wrote on Tue, 11 September 2012 07:55I did notice in the X-Over schematic by Wayne it mentions that this resistor R3 is "Mounted off board". Is this due to heat or something?
The R3 Zobel resistor we provide in the kits is packaged in a large aluminum block which serves both as a heat sink dissipator and as a mounting block. Our crossover PCB has a connector for this resistor, which is mounted off-board. We mount the crossover and Zobel resistor on the inside of the cabinet, directly on the bottom using a gasket to prevent vibration.
Gaskets

Subject: Re: Why mount crossover components to separate board?
Posted by mantha3 on Thu, 13 Sep 2012 12:33:11 GMT
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Would you worry about heat issues using 5 of these 20W 40R resistors?

Subject: Re: Why mount crossover components to separate board?
Posted by Wayne Parham on Thu, 13 Sep 2012 13:19:59 GMT
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The dissipation capacity is rated the same, so I would expect performance to be the same.