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Subject: Crossover inductor for 2 Pi

Posted by [ade1](#) on Fri, 12 Mar 2021 21:32:56 GMT

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Hi all,

After months of searching for a DIY (or affordable) speaker with decent sensitivity (91dB+ spl) I have finally settled on the 2Pi bookshelf. The towers are a bit too large for my small room.

Any help with crossover components would be great. I'd like to get decent components but at an affordable price. Eg, I think the 10 uf Obbligato Gold caps are good enough at £25 each, rather than Mundorfs at double the price. I have used them before and they were fine. Also, am in the UK, so they have to be available on hificollective or other uk audio DIY sites.

I have no idea about the thickness/gauge of the copper wire in the inductor (0.5mH).

Also, what have people used for sound absorption/damping the cabinet.

Any opinions or advise on any aspects of the build will be greatly appreciated

Cheers,

Ade

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Subject: Re: Crossover inductor for 2 Pi

Posted by [Wayne Parham](#) on Fri, 12 Mar 2021 22:37:45 GMT

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Our kits use 18gu Jantzen air-core coils and Solen polypropylene caps.

I would suggest using air-core coils or at least that wire size and poly caps. I'm not as concerned about brand as I am technology. Poly caps and air-core coils work great.

As for damping material, I really like good-old R13 fiberglass insulation.

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Subject: Re: Crossover inductor for 2 Pi

Posted by [ade1](#) on Fri, 12 Mar 2021 23:51:58 GMT

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Hi Wayne,

What about resistors? There's so many to choose from and I don't know exactly what to look for. I know it has to be 16 ohms, but what about the wattage and type - I read that metal oxide are suitable.

Am such a newbie - appreciate the support.

Ade

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Subject: Re: Crossover inductor for 2 Pi  
Posted by [Wayne Parham](#) on Sat, 13 Mar 2021 14:11:39 GMT  
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We use Xicon or Mills non-inductive 10-watt resistors.

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Subject: Re: Crossover inductor for 2 Pi  
Posted by [ade1](#) on Sun, 14 Mar 2021 00:06:48 GMT  
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Hi Wayne,  
I've looked for 16 ohm Mills resistors, they don't seem to do a 10 w, just 5w or 12w. Shall I go for the 12 Watt?

Also found the Xicon, they are only £0.70, each compared to the £5 Mills. I've read good things about the Mills and don't mind paying the extra. It's peanuts compared to some esoteric brands at £25+. Also, it seems a lot of companies don't make 16 ohm resistors, 15 & 18 ohms, but not 16. Does 1 Ohm make a much of a difference?

And the AWG18 Air core inductors range from 0.016mH to 18mH. Which is correct for the xo?

Thanks  
Ade

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Subject: Re: Crossover inductor for 2 Pi  
Posted by [Wayne Parham](#) on Sun, 14 Mar 2021 01:55:05 GMT  
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For the coil, get a 0.5mH part.

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