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Subject: 4pi Crossover Questions

Posted by [klosters](#) on Sun, 27 Jan 2013 00:08:50 GMT

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I am slowly gathering up parts for a 4pi build and have started looking into crossover components. I have a few questions that I am hoping someone can help with. If these questions have already been asked I apologize, but I have done a lot of searches on this forum and didn't find them.

Before I get started you should know that I have the JBL 2226H drivers and plan to use the B&C DE250 compression drivers. I also already have the H290C horns.

#### Plans

I might need to request new plans as the ones I have are over a year old. The crossover schematic is revision 1, dated 1/30/08. I have the H290C horns and have read that with these, capacitor C1 is not needed. I just want to confirm this and make sure there are no other changes that I am not aware of.

#### R3 resistor

There doesn't seem to be a lot of choices out there and I did not find any advertised for audio or from the typical audio supplier sources. Am I missing something?

Mouser has a several options that meet specs. One has lower inductance than the others but costs quite a bit more. Is lower inductance better at this location or does it matter?

#### R2a-d resistors

I have decided to go with Mills resistors but they only have 15 ohm values, not the 16 ohm value called for in the schematic. I found a thread where Wayne said that he uses 15 ohm resistors when using Mills. Knowing this, my questions may seem even more absurd... but I gotta ask. By my calculations if I substitute one of the four 15 ohm resistors with a 20 ohm resistor the total value will be 16.1 ohms. This is very close to the value when using 16 ohm resistors and an improvement over using just 15 ohm resistors. Is there any benefit in mismatching the Mills to get closer to the spec? Are there any disadvantages created by mismatching the resistors in the series / parallel circuit?

#### Inductors

I have decided to go with the larger wire inductors. There are options available in 14 AWG and 15 AWG. It seems like these are so close it wouldn't make any difference. There are options from Jantzen with 15 AWG and Solen with 14 AWG, but the price is basically the same. Options from Erse and Meniscus are 14 AWG but cost quite a bit more. Is bigger wire always better? Should I concern my self with the brand?

Thanks in advance for your help.

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