Subject: Pi crossover data needed
Posted by spkrman57 on Fri, 01 Feb 2008 18:57:55 GMT
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Hi Wayne!I lost the file for the schematics when my pc had problems recently. Could you send to my e-mail address that file again!Thanks much!Regards, Ron

Subject: You've got mail!
Posted by Wayne Parham on Sat, 02 Feb 2008 03:34:34 GMT
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Watch for updates though, because I've been working on upgraded crossovers for some models.The cable assemblies for the tweeter are labor intensive, so I decided to have crossover PCBs made that have room for them. While I was at it, I made room for various configurations and possibilities. The board is 6" x 12" and has room for a two-way or three-way circuit. The tweeter circuit can be made 1st, 2nd, 3rd or 4th order, depending on how it is populated. The midrange (or midwoofer, if two-way) circuit can also be made 1st, 2nd, 3rd or 4th order. The woofer circuit can be either 1st or 2nd order. In addition, the mid and tweeter circuit has room for attentuation resistors, with the mid being a traditional pad and the tweeter being the same R1/R2/C1 form as used for the past few years. The mid attenuator has room for a bypass

my speakers and kits much easier and better.

Subject: Thanks Wayne!
Posted by spkrman57 on Sat, 02 Feb 2008 12:59:30 GMT
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I was very much intrigued with the circuit you sent me.I will have some comments to send to you offline concerning 2226 and your design.Regards, Ron

Subject: PCB Crossovers
Posted by jshoc on Mon, 04 Feb 2008 16:22:52 GMT
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Wayne,Will you be selling unpopulated PCB's?I have a 4 Pi with JBL 2226 (8ohm) and 2446's (16ohm) with home brew crossovers. Would the PCB's lend itself to accommadating variations?Jim

Subject: Re: PCB Crossovers
Posted by Wayne Parham on Thu, 28 Feb 2008 23:22:18 GMT
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shopping cartYou'll notice from the schematic and component layout below that the board can be populated many ways. As an example, the tweeter circuit can be made first through fourth order, with or without padding and top octave compensation. If first or second order is desired, position C3 should be jumpered. Likewise, the midrange (or midwoofer, depending on model) circuit can be made first through fourth order, with or without padding. L3 may be jumpered for first or second order networks, or resistors R4(a-d) may be populated instead. They can be used together for LF augmentation, using R4/R5 padding with inductor L3 bypass. Last but not least, there is a place to put the coil L4 used in the woofer circuit of the cornerhorn.

to mount every component for each of the models. The only exception is the Zobel resistor R3 is mounted off-board. It has mounting holes and is designed for chassis mount, so you wouldn't want to mount it on the circuit board. It is connected to the PCB with spade lugs instead. In some cases component locations are shared in the midrange/midwoofer circuit, where two models have two different configurations. But there is plenty of room for everything, and it is easy to lay it all out with the traces and lands provided.

Subject: Re: Pi crossover data needed
Posted by feket663 on Thu, 06 Aug 2009 14:10:08 GMT
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Hello everyone! I'm from Hungary and have some stupid question about crossover theme.

shipping from USA is expensive, therefore I can't order the finished crossover.
the questions: If I'm using these speakers with 3,5 W 2a3 SE amp, can I use smaller power resistors in x over (especially in R3 position)?
I did't find 0,5 mH air core inductors, just 0,47 or 0,56 mH. Is this good for me?
I'm sorry, I don't understand the physics of crossovers.
Thanks for help!

Subject: Re: Pi crossover data needed
Posted by Wayne Parham on Thu, 06 Aug 2009 15:41:27 GMT
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You can use fewer or lower power resistors if the power applied is low. As for the 0.5mH coil, you can substitute 0.47mH with no problems.

Subject: Re: Pi crossover data needed
Posted by feket663 on Thu, 06 Aug 2009 15:47:47 GMT
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Wayne! Thanks a fast reply.