Subject: Active crossover for 3Pi
Posted by Champion on Sun, 29 Mar 2009 01:32:59 GMT
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Hi Wayne,I have read about the opamp implementation of active crossover for 4Pi. Is that suitable for 3Pi as well? Have anyone designed a Kit?Thanks.Regards,Jacky

Subject: Re: Active crossover for 3Pi
Posted by Wayne Parham on Sun, 29 Mar 2009 07:55:32 GMT
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Gary Kaufmann back when I did the Spice model, so hopefully you can still get them from him.

Subject: Re: Active crossover for 3Pi
Posted by Champion on Sun, 29 Mar 2009 13:23:59 GMT
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So that is the tube implementation? Is there an opamp circuit as well? I prefer solid state so I don't need a high voltage supply ...Thanks.

Subject: Re: Active crossover for 3Pi
Posted by Wayne Parham on Sun, 29 Mar 2009 18:06:52 GMT
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Op-amps are extremely easy to work with. You can design an active crossover with them using the design tool below. Choose a nice Burr-Brown chip for best results. I'm using 627 and 404 chips in a sub crossover I'm working on right now, and there are other op-amps that work very well too. The 627 is good when used in circuits with unity or low gain, like active

3rd-order slopes (3 poles) on both the woofer and tweeter. The LP transfer function for the woofer has a little bit lower knee frequency, about 1.3kHz. The tweeter is a little higher. I suggest using a potentiometer in both circuits to dial it in. You'll also need to provide CD equalization with an RC network.