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Subject: Re: low pass/crossover and different ohms help  
Posted by [Wayne Parham](#) on Fri, 23 Jan 2009 18:25:42 GMT  
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A passive crossover requires a specific load to work with. Too large resistance and it is underdamped, making a peak near the crossover frequency. Too little resistance and it is overdamped, making a shallower slope than expected. In either case, the crossover frequency changes. And since the woofer isn't resistive but rather reactive, other strange interactions occur. Most people add a Zobel filter to mitigate this, but that requires a large power resistor. I use a 100 watt resistor for Zobel filters on the woofers in some loudspeakers with passive crossovers, for example. Why not run an active crossover instead? For subs, I think it's a better option. You could even do something like this, with a 12V wall wart supply: [Active Subwoofer Crossover](#) It's cheap and configurable. It will work just fine for you, I think. But it will require separate amplifiers for subs and mains. If you don't already have an amplifier for the subs, you can either purchase a separate discrete amplifier or you might want to use a plate amp instead. It has the sub crossover built-in, so you won't need the crossover above if you go this route. [Subwoofer Plate Amps](#)

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