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 Zobels 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 CrossoverIt'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