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Subject: Re: plans for single frequency electronic crossover?  
Posted by [Wayne Parham](#) on Mon, 19 Oct 2009 23:49:11 GMT  
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The circuit design isn't what concerns me, nor is it the PCB layout. I guess that's an issue too, since not everyone is familiar with that but if it were just a matter of building a circuit from schematic, you could do a DIY thing. Lots of people build their own amps from kits and even from scratch.

The problem is this is really an acoustics issue. The total system response is a combination of electrical transfer functions and acoustic summing. To further complicate it, the electrical transfer function of a passive crossover is influenced by the impedance of the drivers in the cabinet. They actually become a part of the filters. So to find the electrical transfer functions you have to know not only the passive component values in the crossover but also the impedance of the drivers in the cabinet.