
Subject: Re: plans for single frequency electronic crossover?
Posted by [Wayne Parham](#) on Mon, 19 Oct 2009 15:34:08 GMT
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Oh, I see now. This is near and dear to my heart too.

I like bi-amplification for its obvious benefits, but I regularly have a sort of problem in that most commercial active crossovers offer pretty generic crossover points and slopes. To get a transfer function specific to an implementation takes circuit design or DSP programming. This is usually beyond the ability of most DIYers. So this makes a problem, in that the "right" crossover is passive and an active one with the right transfer function is outside the reach of most people.

Of course, you can always build an active crossover with the right parts to give the required transfer functions. That's a solution. But again, it's not trivial. I would like to see a device similar to Smith & Larson's ICD, but designed to provide a configurable active crossover. It would use Spice as the programming language and would do the DSP to provide the appropriate transfer function. That would allow a speaker with a given passive crossover to be duplicated in an active unit, so bi-amplification would be possible.