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Subject: Re: [More] 8 Pi Crossover questions

Posted by [Wayne Parham](#) on Sun, 27 Nov 2011 23:02:33 GMT

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No, it should be 5mH. It's a gentle filter that does have approximately a first-order slope, but it isn't a crossover, it's essentially EQ. The midhorn increases efficiency at midrange frequencies, but not bass. So the whole L1/R4/R5 network is a response shapong network.

As an aside, pseudo-first-order is just a name I gave to single-component crossovers without a Zobel. I sometimes also refer to them as pseudo-Butterworth networks. All I really mean by that is a reminder that the filter isn't pure first-order unless the load is resistive - which it isn't. So it looks like a first-order filter, but isn't really. It usually forms a first-order slope down low, but more of a shelved response up high. It cannot maintain 6dB/octave through the whole band because the load impedance changes with frequency.