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Subject: Adding some passive components to a speaker

Posted by [akhilesh](#) on Thu, 23 Sep 2004 13:54:38 GMT

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Hi John & Others, I can offer my insights, based on personal experience, as well as some reading. IMHO, adding a few passive components makes no difference audibly. Also, from a mental experimnt standpoint, adding one resistor and an inductor to a circuit should not really make it less predictable. In fact, the way I do it is: start with the amp, then build a speaker using T/S params, and a passive network, so that the speaker mates well with the amp. I have personally followed MArtin's advice and used a passive network, and it improved my speakers considerably, with no sonic deteriorations that I could hear. You may want to try and find scientific studies that investigate if phase shifts (without frequency shifts) are audible. My own experience tells me: no. IMHO the major determinants of speaker AUDIBLE performance are frequency curve, distortion and efficiency (with efficiency being a distant third, provided reasonable amplification is used).  
-akhilesh

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