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Subject: Re: oops

Posted by [Wayne Parham](#) on Sun, 05 Dec 2004 04:44:23 GMT

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Speakers like the Eminence Alpha 15 have such high Q that they are underdamped in any configuration, yielding the response curve you've described. It's basically peaked at resonance, then falling to the minimum and then beginning to rise again somewhere in the midrange. As with all things, the Q is a way to describe the filter function and it doesn't matter if the thing that causes it is electrical, mechanical or acoustic, the outcome is the same both in response and in group delay. Equalization from electronics will do the same as a speaker system with specific mechanical Q as will a Helmholtz resonator or other acoustic device that provides the same curve. These things are all just ways of describing conditions, and that's really all that is meant by the word "alignment" as used in loudspeaker configurations. It's basically just a label that is used to describe a particular set of circumstances. So no matter what you do, the system will have a particular set of characteristics, and those can be said to be its "alignment." It is neither good or bad, just a way to describe the system.

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