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Subject: Re: PiAlign Enclosure Type?

Posted by [Wayne Parham](#) on Thu, 18 Mar 2004 04:48:55 GMT

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PiAlign makes a critically damped alignment for speakers having Qts of 0.38. It is really more like a range of drivers between 0.25 and 0.5 that you can expect this sort of response. As woofer Qts rises above 0.5 or so, it gradually allows the system to become underdamped. And as woofer Qts falls below 0.25, the system tends toward being overdamped. What I like best is that I can count on the system to be tuned right and well-damped in a box of reasonable size. The high Qts stuff is going to be underdamped unless the box is huge, and PiAlign manages to give a great compromise of size to damping. When we get into the 0.25 to 0.5 Qts range, the boxes are all of moderate size and the system is nearly critically damped, flat as can be. And when a woofer is used having very low Qts under 0.2, the system is overdamped and makes a response curve like a sealed box.

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