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Subject: PiAlign port

Posted by [Adrian Mack](#) on Sat, 13 Sep 2003 22:20:14 GMT

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Hi Wayne, I realize that port size doesn't change the response curve if the tuning is the same, but will a port by PiAlign be better than a different sized port of the same tuning? (has this damping got anything to do with transient response or overring). In PiAlign.doc, the formulas for the port set  $L_c$ ,  $F_{re}$ , and  $Q_e$ . Does  $L_c$  correct for when the port is flanged on one end? It seems that the formulas want you to guess a port diameter/length and plug them into the formulas until we get the port  $F_{re}$  to match what cabinet  $F_{re}$  should be. Are we meant to juggle these numbers until the ports  $Q_e$  is the same as the cabinets  $Q_e$ . If these  $Q_e$  are very different for the same tuning, what will happen? BTW: Are port resonances associated with standing waves, or waveguide behaviour? Have you got any links on this topic? Thanks! Adrian