## Subject: Two questions <br> Posted by Pilkar on Sun, 09 Feb 2003 14:58:20 GMT

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Hello!!! have two questions:First: can i mix two slopes for the midrange driver? for example, 18 dB (3rd order) highpass and 6 dB (1st order) lowpass.Second: PiAlign gives me a port that is 4.48 " in diameter, lenght $6.2^{\prime \prime}$ and area 15 . If make the port diameter 4 ", which would be the length?Thank you very much!

## Subject: Two answers <br> Posted by Wayne Parham on Sun, 09 Feb 2003 18:40:40 GMT <br> View Forum Message <> Reply to Message

First, the crossover. Sure, you can have two different slopes for the high-pass and low-pass filters on your midrange.Second, about box tuning. Use Helmholtz formula (shown below) to find the resonant frequency. You can find also this formula in the "Pi Alignment Theory" paper.

Subject: Re: Two answers<br>Posted by Pilkar on Sun, 09 Feb 2003 20:40:49 GMT<br>View Forum Message <> Reply to Message<br>Thank you very much!!

## Subject: Re: Two answers

Posted by Pilkar on Mon, 10 Feb 2003 17:51:16 GMT
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Hello again!Well, i tried and tried, but i cannot find out the new value for Lc with a 4" port. I think i'm messing it up with the unit conversions. I hope you can help me, AGAIN.PiAlign gives me the following data:Encl Vol: 5 cu.ft.Encl Fr: 29HzEncl Q: 2.48Port Type: CylindricalLenght: 6.2"Area: 15 sq.in.Diameter: $4.48^{\prime \prime} \mid$ think thats all one needs to calculate the new port lenght. I want to make the port 4" in diameter. Which lenght would the port have then?Thats all. Sorry if i'm bothering you.Thank you for your help!Pilkar

Subject: Make the port 4.5 inches long Posted by Wayne Parham on Tue, 11 Feb 2003 09:49:49 GMT View Forum Message <> Reply to Message
If you want a 5 ft 3 box to resonate at 29 Hz with a 4 " diameter port, then make it 4.5 " long.

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