
Subject: Re: Basshorns - Pro and Con

Posted by [Earl Geddes](#) on Sat, 15 Jan 2005 21:27:33 GMT

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Question: How did you measure the response down to 32 Hz to know that it was flat? Let's examine the pro's and con's of closed versus bandpass. Closed - LF limit at f_s of speaker in box, HF limit that of the driver itself, or the LP crossover. Bandpass - LF limit as much as 1 octave below f_s of the speaker in the rear box, HF limit no more above f_s than the LF limit is below. In other words the bandpass (single ported) has a symmetrical response centered on the driver's f_s in its rear enclosure. So, unless the closed box is going to be at a HF limit above that for which the bandpass is capable of, the bandpass wins hands down. But the bandpass loses when one wants a response greater than about 1 1/2 octaves. As I so often say, there is no single choice in any of this you have to look at the big picture. In a home theater for the LFE channels (the .1) anything but a bandpass is not the ideal - because this is already a band limited channel.
