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Subject: Re: Another perspective

Posted by [Wayne Parham](#) on Sat, 25 Dec 2004 14:10:56 GMT

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Hi Earl, There's one way to get 90° directivity from a single LF source, and that's to put it into a corner. Other than that, a free-standing bass horn can't because it isn't large enough. Room corners can provide 90° directivity because the walls are large enough to direct the wavefront. About distortion, I can always hear the difference between a driver with an effective shorting ring and I think you're right about the reason why. Even-order harmonics are suppressed well up into the midrange. Flux control rings aren't usually made big enough to do a particularly good job at very low bass frequencies, but they work great from midbass through the midrange. The power range I'm talking about is from about 1% to maybe 25% or so, maybe as high as 50%. For a 600 watt driver, between 10 watts and 100 watts, the difference between one with an effective shorting ring and another similar unit without a ring is clearly audible. Merry Christmas! Wayne

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