Subject: transmission line enclosures
Posted by replay on Thu, 12 Sep 2002 01:19:30 GMT
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hi wayne, i just bought a whack of inventory from an insolvent audiophile retailer. hooked up a pair of dcm time window 7's (a seven sided tower with 2 9" woofers, 2 6" midbass and 3 tweeters). these speakers are 92db efficient and all drives are situated off axis from the listening position. although they lack the dynamics of your pi speakers i am blown away by the bass response of these speakers. everyone who listens to these asks where the sub is. they are a transmission line enclosure. what are your thoughts on this design and can this be implemented into a pi speaker? i'd appreciate your thoughts on the pros & cons of this enclosure. i just love the low end these speakers reproduce.cheers,george

http://www.dcmspeakers.com/archive/TimeWindowSeven.pdf

Subject: Re: transmission line enclosures
Posted by Wayne Parham on Thu, 12 Sep 2002 01:53:16 GMT
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transmission lines, but they are physically large cabinets and are tuned like you've described.As far as transmissions lines are concerned, they're essentially tuned cabinets like bass-reflex except they use 1/4 wave pipe resonance instead of Helmholtz resonance. The trick is to get the bass subsystem to take advantage of the waveguide's lowest standing wave node and maybe some of the lower harmonics, but to suppress all the upper harmonics.Transmission Lines, Pipes and Ducts

Subject: reminds me of the old allison's
Posted by Sam P. on Thu, 12 Sep 2002 10:00:12 GMT
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the way the pairs of tweets and mids fire to the left/right at an angle. If they are TL's, I'm curious about the "tuned port" shown on the rear. Can't wait for you to open one up, shoot some pics, and fill us in on the details!:) I always found the sound of such speakers, where lots of reflected sound field is generated, to be very alluring sonically. But imaging was usually less precise, and placement was MORE critical, not less so as they state. Hey, are the "ambient" drivers wired IN, or OUT, of phase with the "mains"? Samwife adopted the allison enclosure as a plant stand after I "gutted" it in the interest of science...still have the tweets and mids, woofs needed new surrounds(and one was 4, one 8 ohms!?) and the 47uf caps for my zobels came from the xover board:)