Subject: Re: fullrange single driver help please!!
Posted by Martin on Fri, 10 Jun 2005 00:00:35 GMT
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Hi Peter,"Unfortunatly I am unable to open the links associated with your project articles. Perhaps you could email them separatly for me concerning the 206. I have been looking into graphic and parametricEQ's. Any suggestion as to which sounds better? Active vrs. passive?Looking at your correction circuits, it looks like there is no avoiding adding to my signal path."I don't know anything about equilizers. I tend to design my own circuits for each speaker I build. This process is based on calculations, measurements, and finally listening. The circuits always need a little tweaking to get everything just right."I would like to give your circuit a listen. I'm using consonance SET M500 9 watt mono blocks and a passive/pre. I would greatly appreciate it if would please list for me specifically which components you would recommend for me with maybe three different resistor values I could swap out. Schematic also of course.Please be specific with value, brand, tolerance etc.. so I may simply goto the electronics store or pick up the phone to parts express."Your amp should be fine with the circuit, you have plenty of power. The circuit I recommend for my Fostex FE-206E design is virtually the same as the one I use with my Lowther ML TL. That is because the enclosure is the same. The Lowther schematic and parts list can be found at :http://www.quarter-wave.com/Project04/Parts_List_DX3.pdfThe circuit adapted for the FE-206E can be found at :http://www.quarter-wave.com/Project05/BSC_Circuit.pdfBoth circuits are designed for this enclosure :http://www.quarter-wave.com/Project05/ML_TL_Enclosure.pdfIf you enclosure looks different from the one I built you will need to redesign the circuit. An excellent design tool for BSC design can be found at :http://www.tolvan.com/edge/Input your geometry and driver dimensions and it will plot the baffle step response. My MathCad version produces almost identical results so I am very comfortable recommending it for others to use."My cabinets are approx. 45 liters volume with a 3" Dia. x 3"long port. The cabinet is an odd shape though."The Edge progam is your best bet for sizing the circuit. Worst case you try a couple of different inductors and resistors until you get a combination that works with your speakers in your room/set-up."Perhaps I could call you? My number is 310-202-1862 LA, California."I really prefer forums and e-mails, it allows me to think about the question and then write the best possible answer that I can provide."After reading the June Stereophile article on the fine quality and sound of the old C-500 Fisher recievers tone controls, etc...I'm considering sending my Dad's old Fisher CX2-400 their top pre-amp to Fisher Radio for rebuilding primarily so I could us the tone controls, sound crazy?"Afraid I stopped reading Stereophile years ago and don't know anything about tube equipment. Sorry, not much help with those questions.Martin
Quarter Wavelength Loudspeaker Design