Subject: Re: FE127E Design-- MLTL
Posted by lon on Mon, 04 Jul 2005 02:29:39 GMT
View Forum Message <> Reply to Message

Hi again, I got pretty close on all the measures but changed the portsubstantially. There is a description and drawing of theGM MLTL at the EJ Jordan Website. You could use the measures inthe link above for the FE127e. Here's what I did: I got some 69 cent shelving whichI didn't have cut at all in the long length and the end panelshad to be trimmed to the right depth. Having your own table saw helps with all this: I haveto ask someone occassionally to borrow some table time...even that is real sketchy. Cut the speaker hole with a 3 11/16 hole saw or a 4 in.4 in is easier to find. I chamfered out the back using a 3 dollar chamfer bitmounted in a spin saw (spin saw is like a Rotozip). The 6 in port I used is made from 2 in od pvc pipefrom the hardware/plumbing store and the hole is cutwith another hole saw of 2 in. diameter. So far we have a box with speaker mounted on the face, chanmfered back and _no stuffing_ with a couple holesdrilled in the back to let the speaker leads out.... anda 6 inch white pvc tube sticking out the bottom. What to do? I tried making a custom stand from more of the shelving stock but the easier solution was to take 2 ofthose cheap 3 shelf plant stands that are found in any big boxstore in their so-called furniture department. Well their so-called furniture is my _only_ furniture just about. I used the 2 inhole saw to cut holes in the plant stands and pushed theports down through those. They're almost the right height at ear level but closeenough. I made some grilles from some double knit fabric gluedonto some 1/4 in masonite. I managed to cut the centers outwith the spin saw, but this is not recommeneded. Back to the original port design from GM: that can be puton the front, on the back or out the bottom... it can be madewith a 1 in. hole saw and a couple layers of whatever comes up to the1.125 (whateves) depth. I didn't like the sound from the stubby ports... it was low but not _clear_ on plucked string bass. So I lost a bit on the organ recitals I use to test builds. However my main application is jazz shows and use withthe dvd-tv and streaming audio net news broadcasts. If you aren't faint hearted when it comes to using EQ,this design works well and will teach a lot about how muchcan be done with a little. Any questions, come back again. The link below is another design that looks interesting foran inexpensive driver in the Fostex line: a labyrinth tlwith mirror side ports. I cannot find the MLTL Jordan design at the moment. In afull speaker cab design, the longish port extends out the bottomand the side panels can be full length to the floor. A 45dbaffle is used to focus the port energy out toward the listener

| |(| |_ \sort of like that in stick men terms: profile view.

Fostex design for a FE108 Sigma