Subject: lab12
Posted by David Morehouse on Wed, 18 Jun 2008 03:33:07 GMT
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A Lab12 in a ported box of 3.6 cu.ft. 1-3" port,length 7.48" mach.16 1-6" port,length 34.29" mach.04 Is mach .16 ok? What would be gained or lost by externally mounting a 6" port? excluding saf.

Subject: Excursion and vent airspeed
Posted by Wayne Parham on Wed, 18 Jun 2008 17:28:06 GMT
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Most prefer to keep airspeed under 75mph, and the airspeed you've calculated is 125mph. Remember, however, that maximum airspeed is only realized at frequencies near fb, and only at high power. You can use a steep high-pass filter to reduce excursion below cutoff if necessary, but for home theater and hifi subwoofer applications, I don't think you'll need it, either for port "chuffing" or for protection against over-excursion. You can also reduce turbulence using ports with radiused ends.