Subject: Re: Aluminium vs plastic horns, third-order vs fourth-order crossovers...
Posted by Magnus on Wed, 20 Aug 2003 19:11:36 GMT
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AstroSonic,thanks for your thoughts. I originally designed these speakers like 5 years ago as my "party speakers" for moderate SPL:s. I mostly use them for home listening and thus normally just a few watts of power at its most. However now and then a friend borrows them for his band, but I would no, rarely if ever are they cranked up all the way like pro speakers.I have looked at the Pi series (looks very nice, but perhaps not available in Sweden!) the problem in this case is that the Eminence driver will not fit. That is because the boxes are divided into two sections with separate LF and HF chambers and the HF chamber is only 120 mm high so any CD must have a diameter of less than that.But well I guess you are right, sticking with a proven driver/horn combination would of course be the best.Regarding crossovers, as an electrical engineer that is the part of speaker construction I like the most. I usually use MATLAB/SPICE for simulation and a spectrum/network analyser for verifying the results so building a very accurate high-order crossover with any characteristics is no problem (and actually, part of the fun!) although at my normal power levels I guess a second-order network would perhaps be enough./Magnus