
Subject: Re: Thank you... another question

Posted by [Anonymous](#) on Wed, 06 Aug 2003 00:19:36 GMT

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My system is work in progress and everything will be active crossovers. Stage Accompany told me this about the

crossover.=====

====="13 ohms is indeed the best impedance value to start your calculations. We use as crossover frequency mostly about 1300-1400Hz 1st order, and don't worry too much about damaging the unit in home stereo. As long as you keep the average voltage below 27Vrms there will be no problems. This means a peak voltage capability of your amp of 86Vrms

(925W@8ohms)."DeHaan@StageAccompany.com=====

=====The Griffin Loudspeaker uses the SA8535 driver.<http://www.griffinspeaker.com/>Their crossover is; 1700 Hz, Linkwitz-Riley 4th order acoustic, No passive equalization. During my listening tests, even though the driver is able to go lower, I still prefer any tweeter to be crossed over at around 2kHz plus or minus. For crazy SPL, I will use 2.5kHz 3rd order because that is what I have right now, later I will use a better and more flexible active crossover. The midrange that I like to mate with this beast is the 8" PHL2520, 100db sensitivity. I heard good things about the 10" midrange - PHL3450 (3451) from Andre at e-speakers.com it's 101db sensitivity. I think these two midranges would be optimal for great sonic impact of the music, but as you see, the Griffin uses dual Seas Excel probably with more power to drive the lower sensitivity drivers. Using the PHL has tradeoffs, it's only useable down to 200-300Hz, so you need to find a low pass 300Hz solution (some type of bass subsystem).. I struggled with this solution last year. Since I want to line source four SA and four PHL 8" per channel, I need ideally maybe four 15" woofers, but only three woofers will fit the house (hehe)... Tech doc.http://www.stageaccompany.com/download/files/product/techdoc_sa8535.pdf Using this driver down to 1300 - 1400Hz as mentioned by SA, is probably the lowest you want to go, but I would imagine you can drop this down to 1kHz if you keep the power minimal. I was driving this driver with about 19 milliwatts directly off my portable el'cheap Sony CD player (headphone jacks), and it worked. Not much SPL, but I can hear the sounds from 5 feet away and using no crossover. Two of these drivers strapped to someone's head would make cool headphones (hahah), even a few watts would drive this nicely, probably with no crossover. /heh