Subject: Re: Need help with crossover design
Posted by endrek on Wed, 13 Apr 2011 17:11:22 GMT
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I'm working on a X12 from Speakerplans.com
and i'm doubting of some things,
first of all, wich type of filter should i use if i want to make a pasive filter? Wich order? wich type?(with wich type i mean, bessel, butterworth,etc.... (my knowledge about electronics, isnt really good))

And the other question is, at what frequency should the filter separate the 2 woofers freq from the horn-driver???

possible answer:
1) You can ask the designer
2) You can use an electronic crossover ,since it's a PA design it may be appropriate .
3) You can use the magic formulas that give you the values ,which may be adjusted later when listening and not finding them good enough.

but :

1) designer isn't avaible at his email
2) if i use a electronic XOVER (DSP right??) i will need to put two connectors to the X12 right? so i can separate the signal into MF and HF right? Or can i separate it with just one connector?? any advices please?
3)About the magic formulas, i'm starting to look/learn about it. Any good site to look? or cookbook?

the speakers are intended to be for high volume application, as loud as possible hehe.

My final goal is:
I'm building 2 bassreflex box with Fane Colossus 18 XB driver each. (40-250HZ aprox.)
And i'm building two X12. Thats why i'm thinking of a passive filter inside the X12 to sseparate MF and HF.
And I'm going to buy the correct amplifiers for them and a digital XOVER/COMP/LIM/EQ (DSP) for the all the PA
Any suggestions?? Or wich should be the better configuration???What i'm doing wrong? What can i improve?

pd: don't be cruel, i'm newbie, and i'm starting to learn everything
thx for your help
Really appreciate you can take me to the good/best goal