

---

Subject: Xover choices and my issues(long)

Posted by [Mike.e](#) on Tue, 26 Oct 2004 01:41:54 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi all This post consists of the background info ,a Question about my future system,and a thanks at the end.

Story After going to the FRD consortium I read the Phase files and downloaded the programs. I became convinced that absolute phase was necessary since

- 1) "Square waves are a good test of a speakers time linearity"
- 2) "A speaker that can pass a square wave well sounds better"
- 3) Pv consultants are 'experts' so i should beleive them!
- 4) Even a couple on AA agreed with square wave testing.

It pretty much made sense - Although Kreskov failed to tell us - or measure exactly how much better his 'Magic speakers' are with all the phase linearity they have!

Then after reading Rod Elliots and Waynes files on phase I was told that

- 1) Square wave testing doesnt actualy matter
- 2) You can get a good square wave response by moving the measurement mic around the room
- 3) Absolute phase isnt audible but relative phase is

And Rod Elliot seems like another down to earth physics and truth guy!

Conclusion Its nice to have some fact around here! I was getting (even more!) worried about my next 3.1 way horn system and how to filter it !!

-Active Filtering-Id prefer high order linkwitz riley filters

Question In the PI crossover document the issues of passive crossovers and resonance between reactive components are explained and dealt with. Using active filters i wont have to worry about MOST of that.

-Can my Active Filter circuit simply be chosen by Order and Fc and thats it? Im not after Audiophile sound-

After all the music i listen to is Made in a studio with synths and computers and is only heard live at venues on systems that sound worse than mine Also considering Directivity,Horn Types etc.(if i can figure out a 70hz-300hz midbass horn i can fit il be doing that rather than 12"/15" direct radiator!

Thanks to wayne for putting the time and effort into educating and helping people around here! Now,where did i see that version of spice with a nice GUI!

Regards,Mike.e

FRD tools etc

---