> Subject: Re: Yes CP-25 a supertweeter w/ 2.5-20khz freq. resp. Posted by Adrian Mack on Tue, 02 Mar 2004 10:55:32 GMT
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What are the T/S parameters for the 12G320? The Beyma website doesn't seem to have it. It will determine weather or not it can reach 70 Hz flat. The CP25 looks OK. It's a $100 \times 60$ deg horn though, I would prefer to match the dispersion to be the same as the TD400 horn your also using, which is $90 x 40 \mathrm{deg}$. Even then though the directivity varies with frequency so they won't be exactly matched. Actually at the 10 Khz crossover point the DI between the two subsystems are definitely not matched. That vertical dispersion is really a bit large in relation to the other subsystems - more lobing error will result especially up this high. It's a shame Beyma don't publish much about vertical on and off axis response for the CP25. I couldn't find the CP650Ti comp driver response curves on the TD400 horn on the Beyma site either. In fact that compression driver model number did not even seem to be listed. In terms of distortion, if you compare to the JBL's curves they are clearly a lot lower, though thats not to say the Beyma's are bad. I've never used Beyma before so again, I can't offer opinion on how they will sound subjectively, only design advice to make it good academically. About the port length's, yes, there are formulas. Boxplot and WinISD should also give you port sizes too. l'll load up the 18G40 later and get you the port requirements if you want me to. Here is my 300 L vented box tuned at 25 Hz that I built for my 18 " driver about one and a half years back: l'd still prefer a 1" exit compression driver on a horn with compensation to cover 1.6 KHz to 16 or 18 KHz rather than a supertweeter crossed at 10 KHz . It's not worth it in my opinion, too much polar response error and parallax is introduced for the small gain in HF bandwidth which you don't need. Adrian

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[^0]:    Page 1 of 1 ---- Generated from AudioRoundTable.com

