Subject: Choose a match loudspeaker and x-over question.
Posted by Gabriel on Sun, 20 Jul 2003 16:12:28 GMT
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Hi,I'm a beginner in loudspeaker building, and have some question. I already have a Carvin DCM 2000 amplifier with power rating 1000watts /channel in 2ohms and a pair of woofer dual voice coil rated 250watts/voice coil (@4ohms), all are RMS. Now I'm lookin for the mid and high speaker to match. I prefer to operate the system in 2 ohms mode to get the max of the amp, so with the woofer that work until 400Hz with 500 watts/2ohms:1. I need to know the ideal power rating for the mid and high loudspeaker. I have lookin around, but the most ideal mid that I like is only rating around 70-100 watts/speaker in 4 ohms, and the high around 70-100 watts/speaker in 4 ohms too, i will use 2 each to make the impedance 2 ohms, it's OK to use it? How to calculate or determine the power rating of the speaker to match?2. For the x-over, if I use zobel in DVC, do I need to make a circuit for each voice coil or can I calculate the Le and Re in parrarel, and use only 1 circuit?3. The resistor in Zobel circuit, for the 250 watts speaker, it's OK to use 25 watts wire wound resistor(the biggest power rated that I can find)? If not, how to calculate the the rating power of the resistor in Zobel network?Any reply will be appreciated. Sorry if my language is bad, I'm from Indonesia. Thank's in advance Regards,Gabriel Temmy.