Subject: converting active crossover values to passive
Posted by akhilesh on Thu, 01 Feb 2007 12:45:07 GMT
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Hi everyone,Here is the problem: I have 3 drivers, in a 3-way setup, actively crossed at 24 db slopes. Suppose I calculate the cutoff frequency & slopes using an speaker management device (BBE ds 48 or behriger speakre management or some such thng) and my ears & instruments tell me that, say the sub needs to be crossed at 80 hz at 24 db slope, and the woofer/mid needs to be crossed at 80HZ at 12 db slope, and the woofer / mid needs to crossed at 1200 hz at 12db slope and the tweeter needs to be crossed at 1200 hz also at 12db slope. My question is: if I were to build a passive crossover now for this system, using these values, would I just need the impedances of the drivers at these frequencies in order to calculate the LC values of the crossover? Or would I need some other info as well? Further, If I added a series resistor to attenuate the tweeter, say, would I need to include that in my impedance calculation of the tweeter? Would a simple addition of the resistor & the tweeter impedance at cutoff frequency be OK (even though impedance is a 3-d thing of course). thanks in advance-akhilesh