Subject: Compensation components w/ 6db slopes?
Posted by Kramer on Mon, 08 Oct 2001 20:31:37 GMT
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Hi, Wayne! Your crossover papers have been really informative. I'd like to use 6db slopes in my crossover design, but I also want high-freq compensation for the HF compression driver -- if I want 35 ohms additional resistance for the horn driver (on a JBL 2380 clone), do I simply parallel this with a .47uf cap and then calculate the crossover cap size based on the total resistance (8 ohms for the driver + 35 ohms?). Do I need to use a tradional L-pad for the best response? Thanks!

Subject: Re: Compensation components w/ 6db slopes?
Posted by Wayne Parham on Tue, 09 Oct 2001 01:32:21 GMT
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I would not recommend a variable L-Pad, but would recommend a series/parallel attenuator using fixed value resistors. Put an HF augmentation capacitor across the series resistor.The network I use in my speakers will work for you, using values R1=16 ohms, R2=30 ohms and C1=0.47uF. It is a little different configuration than usual, with the shunt resistor in front of the series resistor, because it was designed to provide a specific amount of damping for my crossover. But it will work for you very nicely. Load impedance is about 12 ohms, so keep that in mind when choosing your crossover cap.

Subject: Thanks! (nt)
Posted by Kramer on Tue, 09 Oct 2001 19:26:57 GMT
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