Subject: Wayne, please review piezo attenuation values
Posted by Patrick Kopson on Mon, 20 Jan 2003 01:53:45 GMT
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I am a bit confused by what you wrote in a recent post:"You will use a capacitor in series with the tweeter. Since the tweeter is primarily capacitive, a series capacitor forms a voltage divider rather than a frequency splitter. There is no filter function when components having the same reactive properties are connected together. So a capacitor/capacitor network forms a simple voltage divider, much like a resistor/resistor network does.For a KSN-1038, you can expect attenuation in the following amounts:1.0uF 1dB0.5uF 2dB0.33uF 3dB0.22uF 4dB0.1uF 7dBThese values are what you'll get if you connect a capacitor in series with the tweeter, and do not use any other components. That gives broad-band attenuation only, and does not act as a crossover."This seems to say (to me), "smaller series capacitor yields greater attenuation." Taking that to the extreme, I think it implies, "no series capacitor (a simple wire) yields total attenuation." This last bit is clearly not true; hence my confusion.Was there a mistake in your recent post, or am I missing something?Thanks,Patrick