
Subject: Re: Capacitors

Posted by [Paul C.](#) on Fri, 10 Aug 2001 02:27:32 GMT

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Wayne: I had written you about active crossovers recently... what kind of caps are best for this purpose... more likely to be close to marked value, etc? Are 5% resistors close enough? As you know, I was looking at xover freq in 800 hz range, for a two way system. So, my questions are: Is 12 db/oct rolloffs enough, or should I go for 18 or 24 db/oct? If I cascade two 12 db/oct filters, the Fx point will be -6 db instead of -3 db. Should I overlap the hi pass and low pass a little more? I had sent you active filter topologies I had gotten from two different sources... one from a Radio Shack op amp book, where all C = C and all R = R. Values were computed from $F_x = 1/(2\pi RC)$. The second was the same topology, but values were not equal, and it was described as "Butterworth". I am more the KISS type, and was leaning toward the former equal value circuit. As op amps, resistors and caps are cheap these days, I am leaning toward 24db/oct. (I remember as a kid paying \$1.50 for a diode for a "crystal radio". Oh, I could pick up two stations with mine!) Suggestions?
