Subject: Can I get away with stacking capacitors like Legos?
Posted by BillEpstein on Sun, 17 Apr 2005 23:46:00 GMT
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I built 8 ohm 1200 Hz crossovers to day with existing parts. Please don;t ask how I came to have all these caps.....and more!Needing 11uF I combined a 6.2 and a 4.6; needing 33uF I combined, ta-daaaa.....16, 8.2, 5.4 and 2.2! I also used 1.0 mH coils for toot an woof instead of .8 and .7.Sounds maybe a little muffled and congested in the mids. There was also a good deal of brightness early on but that has settled out. Caps combine in parallel, right? So this should work? Has anyone else ever built a 2-way crossover with 8 caps?

Subject: Re: Yes but dont stack Lego's like caps
Posted by Bill Martinelli on Mon, 18 Apr 2005 01:41:30 GMT
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You have to tie caps together in parallel to add up the values.Combining caps in series will halve the valuesThe whole approach is just opposite that of resistance.other Bill
More than you ever wanted to know

Subject: Cascading
Posted by ToFo on Mon, 18 Apr 2005 01:48:03 GMT
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Hi Bill,I am doing it the same way you did. I had a drawer full of high zoot caps and later learned how cool I was (lol). I believe it is referred to as "cascading". Using a spread of proportionally smaller caps that sum up to your target value. Usually done with 3 to 5 per cap stack. Some folks say large high power caps muck up the overtone range, even when bypassed, so they advocate "cap stacking" and bypassing. Some say a pile of the exact same cap can make the signature sound of that cap audible, thus "cascading" them is done to avoid either issue. I do not know if this holds water, but I happened to have what amounts to a cascaded stack for my highs and it sounds killer. I can't say if it "works" better, but I'm sure there is no harm in it. I have since read that some folks are using cascades to blend the sounds of different brands, conductors, dialectics, etc. Too much part rolling for me, but could be great fun for some. I already have enough solder and aligator clips stuck in the carpet for this lifetime Thomas