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Subject: Capacitor internal resistance - bypass

Posted by [Wayne Parham](#) on Mon, 29 Jul 2002 03:47:27 GMT

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In this case, you haven't increased capacitance as much as you've lowered the internal resistance of the existing capacitor. You've bypassed the large value polypropylene cap used in the conjugate filter. This won't appreciably change the impedance of the speaker "seen" by the amplifier, nor will it change the Zobel very much. But it might subtly change the way the higher frequencies react with the woofer that aren't fully removed by the crossover. My experience has been that Zobel's are very forgiving of capacitance values and I'm not sure that bypass is as effective in this circuit as it is in other situations. But you sure can't hurt it by adding a bypass cap.