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Subject: Spice files models

Posted by [dB](#) on Wed, 15 Mar 2006 11:06:16 GMT

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Hi Wayne, I am just wandering if the spice files models that are created include the resistance for inductances and inductance for caps and resistors? I bet that they do not. I am sorry that I ask this question again, since it was answered so many times on this forum by you. But this "Pi-Library" is so uge and full of such important technical facts. If we use this small values with the components we can make a (more) detailed model of the crossover isn't it? (As when using a wire wound resistor and adding the small value for inductance). By the way check this: Power Resistors (Non Inductive) ONICS - Aluminium housed chassis mounted wire wound resistors(<http://www.power-resistor.com/aluminium.php>) From 0.1 to 10KOhms. Price range from a 50W for 2.00€(euro) and a 100W for 5.00€(euro). Bank charges are 50.00€(euro) for each transaction (India). If/and I am guessing that they don't accept Master or Visa's. Delivery in 2 weeks. They have similar in Sweden from Elfa.com but more expensive, at 6.79€/50W a piece (check for NHS50/Non Inductive ARCOL-Aluminium encap. power resistor), postage 18.00€ for business pack. The problem here is that they don't carry intermediate Ohmic values, only 1, 4, 8, 16, 25, 50 Ohms. But they do accept Visa. Best Regards

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Subject: Re: Spice files models

Posted by [Wayne Parham](#) on Wed, 15 Mar 2006 14:39:53 GMT

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No, you're right, I don't include internal capacitance of coils or internal resistance or inductance of caps in the Spice models for passive crossovers in speaker circuits. But I do include internal resiatnce of coils. The values I haven't included are small, and wouldn't have an effect unless in high impedance circuits and/or at very high frequency.

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Subject: Re: Spice files models

Posted by [dB](#) on Wed, 15 Mar 2006 17:52:17 GMT

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Great Wayne, Thanks! I know that files are very much complete, and I have been asking Chris Rich. also for a little file to model RLC in Spice that you mentioned before in another tread. I just wonder about that because of a few questions in this forum pertaining wire wound resistors, and also because I am using a model for a 3 way (whith LPads/compensation at high frequencies) and I have the idea of using a PTC "PolySwitch"(r) from Raychem or similar: "...At normal operating temperatures, these devises have very low resistances (from 30mOhm to 800mOhm for the RXE devices typically used in speakers)." Regards

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