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Subject: spice model for omega 15 pi 4  
Posted by [djstan](#) on Sat, 25 Jan 2003 15:52:13 GMT  
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Thanks for the info on using my 16 ohm md2001. You suggested thereplacement components in the spice model program, using the 16 ohm driver but i don't have a copy of the spice model. Thought it might be in your pi information on your web site. Can you please forward.Thanks

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Subject: Re: spice model for omega 15 pi 4  
Posted by [Wayne Parham](#) on Sat, 25 Jan 2003 21:32:41 GMT  
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I didn't include Spice models of every driver in the distribution archive. It's pretty easy to do though, a simple model can be made using  $R_e$  and  $L_e$  of the voice coil. This is sufficient for most analysis of woofers, where the crossover is primarily affected by the behavior of the driver at frequencies far above the resonant frequency of the woofer/cabinet system. Tweeters and midrange circuits are a different story, since resonant behavior affects the crossover filters. So I would recommend that your models include tank circuits that describe the resonant behavior for midrange and high-frequency subsystems. But for a woofer, you can usually use a simple model and expect reliable results.