Subject: 16 ohm md2001
Posted by djstan on Wed, 15 Jan 2003 20:54:40 GMT
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Hoping soon to build the pi4's with the omega 15 woofer, but realized my eminence md2001 drivers are 16 ohm units. Whats values do i use for a 1.6 khz crossover. I'm assuming the capacitor values would halve and the coil would double in the high-pass components. Right or wrong? But what about the compensation and L-pad values?Great site, keep up the good work.

Subject: Re: 16 ohm md2001
Posted by Wayne Parham on Thu, 16 Jan 2003 02:08:38 GMT
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I suggest using Spice to find values for R1, R2 and C1 that are appropriate for a 16 ohm MD2001. You can model the MD2001-16 tweeter using the PSD2002-8 model included in the distribution file, but substitute 12 ohms for resistor R4, which represents voice coil resistance (Re). Inductor L4 is voice coil inductance (Le) and it should be changed to 0.2mH. Now all you have to do is model the circuit, finding values for R1, R2 and C1 that give the response like what is shown below.