Subject: Question re: Values for R-L-C Mechanical Reactance
Posted by GarMan on Fri, 05 Dec 2003 16:12:02 GMT
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Hi Wayne,I think I understand how to calucate values of L and C to similate mechanical reactance in SPICE. R of L and C = Zmax/Qms at F(res)However, looking at your examples of woofer models in the crossover document on your site, it seems to assume that Zmax ~ 10 x Qms for all drivers. This would be correct for the Alpha8, but does not match the specs available for the other drivers. Can you please clarify?Also, is the R value in the mech reactance model set at Zmax?thanks,gar.

Subject: Answer re: Values for R-L-C Mechanical Reactance
Posted by Wayne Parham on Fri, 05 Dec 2003 21:46:23 GMT
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You're right about the mechanical resonance values in the Spice files in my distribution file. They are usually close, but some aren't exact. One of these times I may go back and enter exact values, but it really isn't that important because they aren't relevant to analyze behavior near the crossover frequency. They're tuned several octaves below crossover. Most times, the mechanical resonance is commented out because it isn't needed for the crossover calculation.