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Subject: Le (T/S)

Posted by [dB](#) on Sat, 18 Feb 2006 01:25:17 GMT

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Hi Wayne, I want to ask you if the parameter for Le (HF compression driver) that we use to model in SPICE is the one Le @ 1KHz. I have the possibility to ask Prof. Homero in the Brasil Selenium factory the curves for the this driver I have installed in one horn I have chosen and I will be also asking for the impedances and frequency response curves not published yet because the horns can always vary. I take the opportunity to ask if you or PiSpeakers have been in any presentation in Europe before or in Portugal. I would love to see a list of your presences or the PiSpeakers stand in conventions/presentations through out the world and the usa if possible maybe, on your webpage with pictures... you know. Best Regards

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Subject: Re: Le (T/S)

Posted by [Wayne Parham](#) on Sat, 18 Feb 2006 15:08:43 GMT

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We do not have a dealer network and the only convention we regularly attend is the Great Plains

model owned by someone nearby, coming to GPAF or visiting this website. For your Spice model, you can make as detailed a circuit as necessary. For many applications, a simple model with just series inductance and resistance is appropriate. For example, if you are modeling a tweeter and the crossover point is well above mechanical resonance, a simple model will probably suffice. However, if the electrical reactances are near physical reactances in terms of frequency, it might be best to include a virtual circuit model including mechanical resonance. And if inductance changes in the passband, that might be good to model too. You might even model some of the nonlinear reactances by defining your own functions, if you wanted to simulate how the circuit behaved at various power levels.

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Subject: Re: Le (T/S)

Posted by [dB](#) on Sat, 18 Feb 2006 16:43:29 GMT

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Hi Wayne, and thanks. The voice coil reactance for the tweeter virtual circuit (L) is the one measured at 1KHz? (Since it varies across the frequency spectre)

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Subject: Re: Le (T/S)

Posted by [Wayne Parham](#) on Sat, 18 Feb 2006 17:06:39 GMT

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There are several reactances involved. There is the voice coil inductance and resistance. Then there is the mechanical resonance of the diaphragm. If attached to a horn flare, there are several resonant modes associated with that too.

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Subject: Re: Le (T/S)

Posted by [dB](#) on Sat, 18 Feb 2006 17:23:44 GMT

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Thanks Wayne, Just the voice coil L. Is it the same published as Le (like in the one Le for the Eminence drivers. Is it L (or Le, inductance) measured at 1KHz? Other brands as beyma and Selenium, just write the frequency in front of Le as; Le@1KHz, Le@Fs, Le@20KHz.

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Subject: Re: Le (T/S)

Posted by [Wayne Parham](#) on Sat, 18 Feb 2006 17:27:48 GMT

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The published voice coil inductance Le specification is measured at just one frequency, yes.

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Subject: Re: Le (T/S)

Posted by [dB](#) on Sat, 18 Feb 2006 17:44:51 GMT

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Great. And thanks Wayne one more time.

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