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Subject: Impedance correction at a compression driver's Fs - How to calculate - Wayne P?

Posted by [Peter K](#) on Tue, 21 Mar 2006 10:13:57 GMT

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Hello! I have a pair of 2" BMS 4592 ND (16 Ohm version) coax compression drivers on their way to be used from about 300 Hz and up on a large 200 Hz exponential horn for my home system. I would like to make an impedance correction circuit to flatten-out the impedance peak around the Fs of the BMD "mid-section" (app. 360 Hz according to the graphs on the BMS website). There is a link to the driver below. Besides, I have from the manufacturer (BMS) got the following values for the 16 Ohm version:  $R_e$  (mid) = 8.9  $L_e$  = 0.19 (at 10 kHz) If I understand it correctly, an impedance corrections circuit (Zobel?) can be calculated quite precise when the driver's  $Q_{es}$  and  $Q_{ms}$  are available. But that is usually not the case when the driver is a compression driver, as in my case. However, at the link given here:

<http://www.the12volt.com/caraudio/crosscalc3.asp#zobel> there is an online Zobel-calculator that based on the description seems to do what I search for. 1. The calculator asks for the "Nominal resistance". In my case, is that the 16 Ohm (because it is said to be an 16 Ohm driver), or the  $R_e$  = 8.9 Ohm provided by BMS, or...??2. Is the formula in the link the way to go, or should I rather do something else - and in that case what? I would really appreciate your help

- thanks! Regards Peter

BMS 4592 ND

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