
Subject: Pi Speakers Crossover SPICE values

Posted by [Adrian Mack](#) on Tue, 13 May 2003 07:48:18 GMT

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Hey Wayne. I downloaded Spice today and opened the pi crossover files. However I have a few problems trying to run the transfer function graph: It asks for the "Small-signal Output Variable" and also the "Small-signal input source". I went to the Help files, and entered the example ones, it said enter v(8) and vin, and it came up with a small box with three things in it, and three numbers, but no transfer function graph?! What should I do? Maybe I should stick with using the 1.6KHz compensation values on the 1KHz crossover? I do want it done properly though.... I would like to avoid as much guessing as possible. R1, R2 and C1 change the compensation values.... how can I change these values in spice? I think it has something to do with the (+)node and (-)node values in Spice.... but they dont seem to change the value of the component next to it. ! Compensation components

component	(+)node	(-)node	value
R1	3	1	16
C1	3	1	0.47uF
R2	3	0	16

Pre-compensation load

Which one(s) of these should be changed? BTW: How much compensation should be used? I think the graph you showed me before was for a two inch driver, which needs more compensation. I will probably do some ear tests as well in case it is too much/little compensation, so I can change it, which is why I need to know how to use Spice for this :-)

Any ideas? Thanks! Adrian
