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Subject: 16 ohm L-pad information needed please!  
Posted by [Mikey](#) on Thu, 30 Jan 2003 14:29:13 GMT

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Hi Guys, My high efficiency speaker system has evolved into a two-way setup using a 15" Gauss 4580A on the bottom, augmented by a JBL 2446J on the top end. Crossover frequency is 500Hz. The JBL crossover consists of (in order, from input jacks to speaker terminals):- 12 dB rolloff using the appropriate cap and coil- a Parts Express 260-261 16 ohm L-pad (see link below)- impedance compensation- CD equalization My question centers around the L-pad I'm using.... Now that I've got the levels matched between the Gauss and the JBL, I plan on removing the cheesy rotary pot and replacing it with Mills resistors of the appropriate value. Without disturbing it, I removed the pot last night to measure the equivalent values of R1 (series resistor) and R2 (parallel resistor), and came up with the following:  $R1 = 6.0 \text{ ohm}$   $R2 = 5.5 \text{ ohm}$  Just for kicks, I decided to verify these values with the formulas found in Vance Dickason's Loudspeaker Cookbook. It turns out that they were way different! According to his formulas, a R2 of 5.5 ohm should calculate to a R1 of 12 ohms! Should I just ignore the theoretical values and replace the pot with the values I measured? If not, can anyone help me with the proper calculations for this L-pad? Thanks in advance, Mike

Parts Express 16 ohm L-pad....

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