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Subject: Adding resistance changes system peaking at resonance

Posted by [Wayne Parham](#) on Mon, 08 Apr 2002 19:31:52 GMT

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Using an L-pad in the woofer circuit will change its damping. The added resistance will act like  $R_{es}$  and  $Q_{es}$  are higher. The woofer and its cabinet form an acoustic filter, which works just like an electronic filter, and resistance changes filter  $Q$ . Series resistance increases peaking and parallel resistance increases damping. So it will probably have an effect on response shape in addition to amplitude.