
Subject: Re: ESL Bias Supply Filtering Update
Posted by [moray james](#) on Wed, 13 Jul 2005 19:01:29 GMT
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Thought that I would post Ron's comments on this mod. Ron believes that the cause of the performance change in the speaker is as a result of a resonant circuit being formed by the choke and the speaker capacitance. Here are Ron's comments. Hi Moray: Those 500 Meg ohm resistors are too high to have any effect on the Q of a tuned circuit. Even 10 to 20 Megohms is pretty high. We could do a circuit simulation to show what effect the resistors would have but it maybe just as easy to connect the componets and measure the result. The resonant frequency of a tuned circuit is equal too: $f_r = \frac{1}{2\pi\sqrt{LC}}$ Where f_r = the resonant frequency $\pi = 3.1416$ L = the circuit inductance C = the capacity The term \sqrt{LC} power is actually the square root of the (LC) product. Hope this helps. Ron
