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:Fr = (2 * Pi)/(LC)^1/2Where Fr = the resonant frequency Pi = 3.1416 L = the circuit inductance C = the capacityThe term (LC)^1/2 power is actually the square root of the (LC) product. Hope this helps. Ron