Subject: ESL Bias Supply Filtering Update
Posted by moray james on Mon, 04 Jul 2005 20:19:01 GMT
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I was able to get back to my buddies on Sunday and try out the two 7 Henry chokes in series to form a 14 Henry choke. This composite choke was placed in series with the HV supply output after the load resistor and prior to the diaphragm (useing Acoustat 0ne plus 0ne's). I ran both panels off of the newly set up supply. There was a small but worth while improvement. I should think that building a composite choke from a series of physically spaced 1 Henry chokes would be the way to go (10 H a good value). This will result in a wide band low capacitance choke for less than the cost of a single unit.Regardless of the type of ESL you own if the stators are insulated then this mod will make an improvement. The mod works by damping AC modulations in the diaphragm caused by charge build up in the stators dielectric. This perhaps confirms why Hunt, Janszen and Strickland all shared a preference for the use of a "leaky" stator dielectric like PVC. The solution is to build stators without any dielectric at all. In the mean time this simple mod will provide you with better dynamics and bass/mid impact as well as cleaner overall sound breathing new life into your ESL's. Thanks to Robert F. of NZ for the nod regarding this great mod. Best regards Moray James.