Subject: Re: Art Array Improved Crossover
Posted by Wayne Parham on Mon, 09 Feb 2009 19:03:22 GMT
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Thanks for the link, Fred.A few thoughts:The measurements that were made weren't close mic'ed, they were done at two meters, if I recall. I would have preferred a little more distance, but I was working in an area where I couldn't really throw the power at them so I wanted to be sure and be above the noise floor. I chose a power/distance that seemed to be the best compromise.Also, perhaps more importantly, the measurements weren't done with the speakers on their sides. They were measured outdoors, standing upright with the microphone on axis with the tweeter. See the thread about ART Array measurements.ART Array Test ResultsI think you might be thinking about the fact that I did lay them on their sides and measure them to get a comparison, to see the effects of ground reflecton mitigation from the array. I never published that dataset, but I am certain I commented about it, probably privately in an E-mail. I often comment on how vertical arrays smooth floor bounce, much in the same way that multi-subs smooth room modes.The Vifa tweeter does benefit from a damping resistor, but I don't see a huge peak in acoustic output near its resonance. It works very well with a simple first-order filter and small amount of resistor damping. Of course, reducing excursion in turn reduces IMD. Then again, there are advantages offered by first-order filters too.