Subject: Re: The 2 Pi Towers have me thinking about direct radiators
Posted by Wayne Parham on Wed, 14 Sep 2005 06:22:05 GMT
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Crossover at decades is sort of a pseudo-ideal. It isn't necessarily better or anything, it's just that if you made a three-way speaker crossed at decades [20-200, 200-2000 and 2000-20,000], each subsystem would be covering exactly a 10x frequency range (a little over three octaves each) and the entire audio band would be covered.About the Vifa DX25, I think it sounds very nice in hifi speakers designed for use under 115dB SPL. It has a wide surround and can handle some excursion, so it can be safely crossed over pretty low for a 1" dome tweeter. That characteristic also makes it respond well to first-order networks. Its response curve is ruler flat and goes

sounds very nice.Compression horns have other advantages. They're horns, so you can set directivity. They're efficient, so you can use them in powerful speakers that get loud. Those are very attractive features too, and important in many designs. I use them in a lot of my systems.