Subject: Re: Tweeter circuits for constant directivity horns and waveguides
Posted by dB on Sat, 07 Feb 2009 18:32:25 GMT
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"On the other hand, I have seen cheap compression drivers with lots of breakup in the top octave. The inexpensive Selenium drivers are a good example. Mass rolloff starts reducing output but diaphragm breakup starts making resonant peaks that increase output in the top octave. This kind of behavior adds "sparkle" and sounds good at fist listen, but I find it to be a little harsh, especially when listening long term."Very true."Whether you like them or not, the best implementation of such a device is to not add in full top-octave augmentation, don't provide the full 6dB/octave rise. Reduce it by some amount, so the top-octave doesn't rise above the midband as a result."Yes, very good point in translating that into words. I have it nailed. I tested a couple (of hundreds) modelations on spice before (for different horns), and it still keeps me going. Nothing a good driver or a professional ribbon can't solve. In another way I learned that also the time involved doesn't come cheap... unless you are having fun... and I don't find a lot of girlfriends (or men so to speak) around interested into building loudspeakers, that's why we have to keep the fests and conferences up!