Subject: Re: Conical HF Horn?
Posted by Bill Wassilak on Fri, 15 Jun 2007 16:39:21 GMT
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::I'm aware, though marginally, that a conical doesn't load well near its lower cutoff, so does this mean that a larger horn is needed to achieve the same cutoff as (for instance) a smaller CD-type horn? Yes a conical horn will start cutting off appox. 20% higher in frequency than what the flare rate is. So you would need a larger horn to achive the same cutoff.::I know that the horn has to be large enough to house the other speakers, but how much of it is needed to load the 1" driver? I have no idea.::And, if the coverage pattern were opened to 90 degrees, what might be expected for an off-axis response? Will it become beamy?It would hold its pattern down the the cutoff of the horn but off-axis the higher freqencies would be more jagged in response and at a lower level. All horns start to beam at a higher frequency especially a conical horn (But I don't remember what the formula is). CD horns try to stretch the beaming out effect to the upper octaves where the ear's not a sensitive.