Subject: Re: Pipe modes
Posted by Wayne Parham on Fri, 24 Jun 2005 01:54:01 GMT
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I don't agree with your assessment of horns, particularly when used at high frequencies where wavelengths are small. Even a relatively small device is possible for use above the first or even the second pipe mode. I have reservations about the case for pipe modes of basshorns, but not tweeters.Since you have 3" of throat mounted on the device, it seems to me that the best thing for you to do would be to complete the horn by adding a flare. A 3" section has a quarter-wave mode at 1kHz and half-wave at 2kHz, so I think the best thing you could do would be to complete the flare by adding a horn as the device was intended. I would prefer to either have a direct radiator or a full sized horn than a truncated pipe.