Subject: Re: Ratings of horns?
Posted by Wayne Parham on Wed, 03 Apr 2002 21:28:44 GMT
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Horns are often described by their flare rate. Assuming the horn is a standard Salmon shape or Tractrix, not a hybrid, if you know the type of horn (exponential, tractrix, conical), then the flare rate describes the horn profile. The mouth must have sufficient area to support the flare rate or response will be peaky. But if these conditions are met, then the flare rate essentially sets the lower cutoff. For a tractrix horn, the lower -3dB point is about a half octave above its flare rate. Exponential horns generally work down to their flare frequency. Horns have bandwidth of about three octaves. So its upper cutoff is about three octave above its lower cutoff.