Subject: Re: Constant Directivity
Posted by Wayne Parham on Sat, 19 Aug 2006 05:14:12 GMT
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Throat area sets a lot of things. One of them is when the horn rolls off on top due to path length differences. The phase plug is designed to reduce path length differences, to extend upper frequency response. The throat angle sets the width of the pattern at the highest frequencies. And, yes, diffraction comes into play if some horn feature is at wavelength dimensions. Something that acts as a diffraction slot will widen the pattern.