Subject: LA HF horns
Posted by DSM on Tue, 27 Jul 2004 02:26:44 GMT
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Whats the requirements for a Line array HF horn? I notice DDS now makes a dual 1" horn. Not really sure how summation takes place. If its a very narrow vert coverage, does each fill a zone with no overlap? I just can't comprehend that given the required bandwidth and beaming thats happening in the upper octave(s).Wish I could afford ribbons.

Subject: Much simpler than you may think.
Posted by Bill Fitzmaurice on Tue, 27 Jul 2004 17:55:59 GMT
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What's critical is the distance between the radiating planes of the individual elements, which ideally is kept under a wavelength. This rules out 1" domes that have 2" wide mounting flanges but other options are available. A simple rule of thumb states that if the radiating plane of the array comprises are least 90% of the meaured vertical plane then you're OK. Where horns are concerned the radiating area is the horn mouth, exclusive of the mounting flange.