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Subject: Re: Pattern control and mouth size

Posted by [Cuppa Joe](#) on Sat, 10 Feb 2007 02:26:19 GMT

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Just for clarification, does the 1/4 WL distance refer to the center-to-center spacing of the horn mouths? I wasn't completely clear about that aspect of the Pat Brown article. I've skimmed that article before and I have it bookmarked for future reference. Very depressing! The 1/4 WL restriction for proper coupling is difficult to achieve without violating some patent or copyright (Danley's unity horns, etc.). The "dense interference" technique is my weapon of choice for the vertical HF section in one of my design ideas. Whatever happened to the more relaxed, full-wavelength coupling criteria of the V-DOSC? Does it only apply to direct radiators arranged and spaced a la Christian Heil? Back then, the thinking seemed to be that direct radiators were meant for coupling and horns were meant for segregation when coupling was no longer feasible.

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