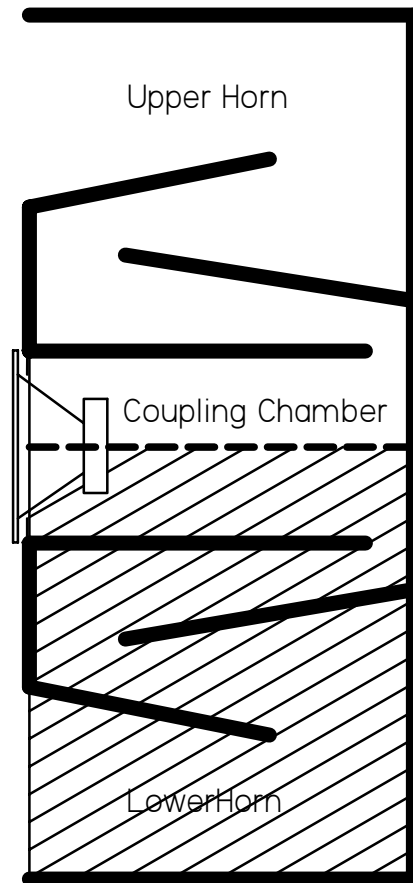


Double Back Loaded Horn Application Notes

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7/03/09



When modeling a double back loaded horn, only input the geometry of one half of the horn. This would be the shaded area in the figure to the left. MathCad assumes the other half is identical and automatically doubles the model to completely define the geometry. The key assumption is that the geometry is identical in both horns.

MathCad Model : Double BLH Contours and Double BLH Sections can be used to model the double back loaded horn geometry shown above.

General Comments :

The driver position ratio can vary from 0.0 to 1.0, however in MathCad a section cannot have a length of zero. The range of driver position r_{stio} is limited to be between 0.001 and 0.999 in the worksheet. Refer to the BLH Application Note for a more detailed picture.

Double BLH Contours - Three types of horn geometries are defined, by changing a couple simple inputs each geometry can be analyzed.

Double BLH Sections - Any horn geometry can be defined by entering the detailed section data by hand to represent a general profile..