

## Analysis and Design of a Folded Branch Line Coupler

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*J.P. Starski, H.B. Lunden and V.K. Tripathi. "Analysis and Design of a Folded Branch Line Coupler." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 169-171.*

The scattering parameters of branch line hybrids with coupled lines are derived in terms of the even- and odd-mode admittances and the lengths of the lines. These are used to formulate closed form design formulas. The result gives very compact structures at lower frequencies. At higher frequencies the coupling between the lines due to the limited spacing can be compensated.

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