Abstracts

The Characteristic Impedance and Coupling Coefficient of Coupled Rectangular Strips in a Waveguide

M.K. Krage and G.I. Haddad. "The Characteristic Impedance and Coupling Coefficient of Coupled Rectangular Strips in a Waveguide." 1968 Transactions on Microwave Theory and Techniques 16.5 (May 1968 [T-MTT]): 302-307.

The effect of both the ground planes and sidewalls on the characteristic impedance and coupling coefficient of two coupled strip-lines are investigated. Numerical results are given that should aid in the design of miniature directional couplers where the sidewalls are close enough to the strips to have a large effect. It is shown, for example, that the coupling coefficient can be varied as a function of distance to enhance the bandwidth, while the impedance can he maintained constant to improve the directivity.

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