Abstracts

Microstrip Discontinuity Capacitances and Inductances for Double Steps, Mitered Bends with Arbitrary Angle, and Asymmetric Right-Angle Bends

P. Anders and F. Arndt. "Microstrip Discontinuity Capacitances and Inductances for Double Steps, Mitered Bends with Arbitrary Angle, and Asymmetric Right-Angle Bends." 1980 Transactions on Microwave Theory and Techniques 28.11 (Nov. 1980, Part I [T-MTT]): 1213-1217.

The equivalent capacitances and inductances for microstrip double steps, mitered bends with arbitrary angle, and symmetric right-angle bends are calculated by the moment method. The data for the double step include the coupling effect between the two single steps. The geometry of the mitered bend with arbitrary angle is determined for minimized bend VSWR over a wide range of parameters. The equivalent circuit data of the asymmetric right-angle bend are compared with results of the frequency dependent planar waveguide model.

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