

Abstracts

Characteristics of asymmetrical coupled lines of a conductor-backed coplanar type

K.-K.M. Cheng. "Characteristics of asymmetrical coupled lines of a conductor-backed coplanar type." 1997 *Transactions on Microwave Theory and Techniques* 45.3 (Mar. 1997 [T-MTT]): 460-463.

This paper presents for the first time a computer-aided design-oriented (CAD) analytical formula for the determination of the characteristic parameters of asymmetrical coupled lines of a conductor-backed coplanar type. Closed-form expressions are developed for evaluating the self and mutual static capacitances based on a sequence of conformal transformations. The derived formulas show excellent accuracy compared to the results produced by a spectral-domain approach.

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