Abstracts

Characterization Method and Simple Design Formulas of MCS Lines Proposed for MMIC's (Dec. 1987 [T-MTT])

E. Yamashita, K.R. Li and Y. Suzuki. "Characterization Method and Simple Design Formulas of MCS Lines Proposed for MMIC's (Dec. 1987 [T-MTT])." 1987 Transactions on Microwave Theory and Techniques 35.12 (Dec. 1987 [T-MTT] (1987 Symposium Issue)): 1355-1362.

The proximity effects between microstrip lines and ground on monolithic microwave integrated circuits are estimated by using the rectangular boundary division method. The attenuation constant is calculated based on a new form of the incremental inductance rule. Micro-coplanar strip (MSC) lines are then proposed to avoid the proximity effects. Some results of structural design parameters of MCS lines are expressed in simple polynomial formulas for CAD.

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