Abstracts

Accurate Approach for Computing Quasi-Static Parameters of Symmetrical Broadside-Coupled Microstrips in Multilayered Anisotropic Dielectrics (Short Papers)

M. Horno and F. Medina. "Accurate Approach for Computing Quasi-Static Parameters of Symmetrical Broadside-Coupled Microstrips in Multilayered Anisotropic Dielectrics (Short Papers)." 1986 Transactions on Microwave Theory and Techniques 34.6 (Jun. 1986 [T-MTT]): 729-733.

In this paper, we present a method for calculating the propagation parameters of shielded broadside- end broadside edge-coupled microstrip transmission lines. Conductor strips are assumed to be embedded in a multilayered isotropic and/or anisotropic medium. This method provides accurate expressions for computing upper and lower bounds for the true values of mode capacitances, The effects of side wall-shielding and anisotropy of the material are investigated. Some particular multilayered structures are analyzed, which could be applied to the design of directional couplers and filters.

❑ Return to main document.