Abstracts

Coplanar stripline components for high-frequency applications

K. Goverdhanam, R.N. Simons and L.P.B. Katehi. "Coplanar stripline components for high-frequency applications." 1997 Transactions on Microwave Theory and Techniques 45.10 (Oct. 1997, Part I [T-MTT]): 1725-1729.

In this paper, coplanar stripline (CPS) discontinuities such as a narrow transverse slit, a symmetric step, a right-angle bend, and a T-junction are characterized and their performance is parameterized with respect to frequency and geometry. In addition, filter design using coplanar stripline discontinuities has been investigated. Lumped equivalent circuits are presented for some of the discontinuities. The element values are obtained from the measured discontinuity scattering parameters. The experimental results are compared with theoretical data obtained using the finite-difference time-domain (FDTD) technique for validation and show very good agreement.

❑ Return to main document.