Abstracts

Full-wave characterization of an edge-coupled coplanar-waveguide structure with backed conductor

Chun-Lin Liao and Chun Hsiung Chen. "Full-wave characterization of an edge-coupled coplanar-waveguide structure with backed conductor." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1089-1092.

A novel edge-coupled coplanar-waveguide (CPW) structure with finite-extent backed conductor is proposed. Based on the full-wave analysis, the effective dielectric constants and characteristic impedances of odd and even CPW modes are characterized, together with the associated coupling coefficients. The electric field distributions of these two modes are also presented.

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