Abstracts

Coupling between neighboring CPWs in MMICs

F. Schnieder, H.-M. Heiliger and W. Heinrich. "Coupling between neighboring CPWs in MMICs." 1998 Microwave and Guided Wave Letters 8.8 (Aug. 1998 [MGWL]): 290-292.

Coupling between neighboring coplanar waveguides (CPWs) is simulated and measured. Simulation is based on two-dimensional (2-D) electromagnetic analysis and a network description. The investigations show that, in general, coupling may be neglected (lower than -30 dB) if the distance between the CPWs is more than twice their ground-to-ground spacing. However, this does not hold in the conductor-backed case with a connection between CPW ground and backside metal. Then, one finds sharp resonance peaks in the coupling exceeding -10 dB.

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