Basic Blocks for High-Frequency Interconnects: Theory and Experiment

Proximity-coupled open-end microstrip interconnects (transitions) in double-layer planar structures are investigated through the method of moments solution of integral equations. Two types of EMC (electromagnetically coupled) microstrip lines are considered, collinear lines and transverse lines. It is found that these interconnects are broad-band and provide wide range of coupling coefficient. The theoretical model for the transverse microstrip transition is in good agreement with measurements.

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