Abstracts

A Full-Wave Analysis of Shielded Microstrip Line-to-Line Transitions

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A rigorous procedure is used to analyze several microstrip line-to-line transitions in a shielded multi-layer structure. The transitions studied include edge-coupled lines, overlay-coupled lines and coupled-to-single lines. A power conservation check based on a rigorous Poynting vector analysis is also used to determine the accuracy of the numerical convergence. The results of power distributions and coupling coefficients of the line-to-line transitions are studied parametrically to indentify the properties and applications of each transition.

❑ Return to main document.