

Enhanced Model for Interacting Step-Discontinuities

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The increase in working frequency and the advent of monolithic technology stress the need of better accuracy in the characterization of passive components. With this respect, a new lumped equivalent circuit is proposed and tested, able to characterize both the interacting and the non-interacting cascaded step-discontinuities in microstrip. The model is based on a dynamic approach, utilizes practically frequency-independent lumped elements, is very broadband and easy to be implemented in the presently available commercial packages.

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