

Abstracts

Transmission lines and passive elements for multilayer coplanar circuits on silicon

C. Warns, W. Menzel and H. Schumacher. "Transmission lines and passive elements for multilayer coplanar circuits on silicon." 1998 Transactions on Microwave Theory and Techniques 46.5 (May 1998, Part II [T-MTT] (Special Issue on Microwave Circuits on Silicon Substrates)): 616-622.

In this paper, propagation properties of both standard and multilayer coplanar lines on different types of silicon substrates, as well as a number of quasi-lumped and stub-type circuit elements, are investigated. For the transmission lines, emphasis is placed on losses. As examples for circuit elements, a lumped parallel resonator and a high-low impedance low-pass filter are demonstrated.

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