

Abstracts

Modelling of Passive Elements for Coplanar SiGe MMIC's

R. Doerner, J. Gerdes, C. Rheinfelder, F.J. Schmuckle, W. Heinrich, K. Stroh, F. Schaffler and J.-F. Luy. "Modelling of Passive Elements for Coplanar SiGe MMIC's." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1187-1190.

As the first step in the development of coplanar SiGe MMIC's, modelling and experimental results on passive components are presented. The investigations demonstrate that parasitic effects induced by passivation of high-resistivity silicon substrates play an important role. Efficient CAD tools are developed and verified by comparison to measurements.

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