Abstracts

Multilayer passive components for uniplanar Si/SiGe MMICs (1997 Vol. II [MWSYM])

T. Gokdemir, U. Karacaoglu, D. Budimir, S.B. Economides, A. Khalid, A.A. Rezazadeh and I.D. Robertson. "Multilayer passive components for uniplanar Si/SiGe MMICs (1997 Vol. II [MWSYM])." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 761-764.

This paper describes results for novel multilayer passive components, fabricated on silicon substrates for Si/SiGe uniplanar MMICs. Results are compared for high resistivity silicon, high resistivity silicon with an added polyimide layer, and silicon with silicon dioxide (to represent SOI bonded silicon technology). The components that have been characterized include CPW and TFMS transmission lines and couplers, inductors, capacitors, and planar transformers.

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