

Abstracts

Analysis of Stitch Line for Monolithic Microwave Integrated Circuits

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A new type of transmission line, called the stitch line, is introduced for possible applications in monolithic microwave integrated circuits. A simple approximate analysis method under the assumption of a quasi-TEM propagation is presented which includes the conductor loss. The s-parameters of a two-port circuit constructed with these stitch lines are computed based on the analysis. The results agree well with measured characterizations.

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