

Abstracts

Open and Short Circuits in Coplanar MMIC's

K. Beilenhoff, H. Klingbeil, W. Heinrich and H.L. Hartnagel. "Open and Short Circuits in Coplanar MMIC's." 1993 Transactions on Microwave Theory and Techniques 41.8 (Sep. 1993 [T-MTT] (Special Issue on Modeling and Design of Coplanar Monolithic Microwave and Millimeter-Wave Integrated Circuits)): 1534-1537.

Coplanar MMIC stub configurations are investigated by means of the finite-difference method in the frequency domain. The open end, the short end, and a capacitively loaded short end (MIM-short) are analyzed. Their parasitic effects are described in terms of the effective length extension $l_{\text{sub ext}}$. The influence of the different line parameters is discussed and simple design rules are given.

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