

Abstracts

Uniplanar MIC Balanced Multiplier-A Proposed New Structure for MIC's

H. Ogawa and A. Minagawa. "Uniplanar MIC Balanced Multiplier-A Proposed New Structure for MIC's." 1987 Transactions on Microwave Theory and Techniques 35.12 (Dec. 1987 [T-MTT] (1987 Symposium Issue)): 1363-1368.

A novel uniplanar MIC (microwave integrated circuit) and a balanced MIC multiplier are proposed and their characteristics discussed. The circuits use a combination of coplanar waveguides, slotlines, and bonding wires on one side of the substrate. A uniplanar MIC multiplier is designed for use in the 13- and 26-GHz bands and fabricated on an alumina substrate. Good performance with respect to isolation between RF ports is achieved.

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