Abstracts

Very Small Ultra-Wide-Band MMIC Magic T and Applications to Combiners and Dividers

T. Tokumitsu, S. Hara and M. Aikawa. "Very Small Ultra-Wide-Band MMIC Magic T and Applications to Combiners and Dividers." 1989 Transactions on Microwave Theory and Techniques 37.12 (Dec. 1989 [T-MTT] (1989 Symposium Issue)): 1985-1990.

An FET-sized 1-18 GHz monolithic active magic T (180° hybrid) is proposed. It unifies two different dividers, electrically isolated from each other, in a novel GaAs FET electrode configuration, viz. the LUFET concept. Its characteristics and experiment results are presented. Applications of the magic T to miniature wide-band RF signal processing modules such as dividers, combiners, and switches are described.

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