

Abstracts

Divider and Combiner Line-Unified FET's as Basic Circuit Function Modules--Part II

T. Tokumitsu, S. Hara, T. Takenaka and M. Aikawa. "Divider and Combiner Line-Unified FET's as Basic Circuit Function Modules--Part II." 1990 Transactions on Microwave Theory and Techniques 38.9 (Sep. 1990 [T-MTT] (Special Issue on Multifunction MMIC's and their System Applications)): 1218-1226.

Applications of line-unified FET's (LUFET's) to RF signal processing elements such as multiport combiner/dividers, mixers, balanced modulators, signal path switches, and circulators are proposed and demonstrated. These MMIC's are realized by modifying and combining LUFET's. The area of the fabricated LUFET's and LUFET MMIC's is between 0.1 and 1.5 mm², the average being about 0.5 mm². Multi octave-band operation suitable for generic use is also easily achieved.

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