

# Abstracts

## Unilateral Microstrip Balanced and Doubly Balanced Mixers

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*R. Knochel, B. Mayer and U. Goebel. "Unilateral Microstrip Balanced and Doubly Balanced Mixers." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1247-1250.*

Possibilities for the uniplanar realisation of balanced and doubly-balanced microstrip mixers are discussed. Several novel mixer designs are presented, which can be used for miniaturization or for broadbanding the performance, using simple and noncritical branchlike structures. The feasibility of the structures is verified experimentally. Relative bandwidths up to approximately 45% are reached easily.

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