

Abstracts

A Novel Wilkinson Power Divider with Predictable Performance at K and Ka-Band

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Multi-port microstrip power dividers, used in array antenna applications, frequently utilize the Wilkinson design. The standard asymmetrical Wilkinson design has problems at frequencies beyond X-band, due to coupling between the output branches. A novel, modified design is presented. Its operation can be easily and accurately modeled. Its successful operation is demonstrated using measurements from a 2:1 Ka-band power divider, and a 14-way K-band power combiner.

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