

Abstracts

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

D. Antsos, R. Crist and L. Sukamto. "A Novel Wilkinson Power Divider with Predictable Performance at K and Ka-Band." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 907-910.

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.

 [Return to main document.](#)