

Abstracts

A New N-Way Power Divider/Combiner Suitable for High-Power Applications

U.H. Gysel. "A New N-Way Power Divider/Combiner Suitable for High-Power Applications." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 116-118.

Theoretical and experimental results are presented on a new N-way power divider/combiner, which is an extension of the N-way combiner by Wilkinson. The main advantages of the new design are (1) external isolation loads, permitting high-power loads, (2) easily realizable geometry, and (3) monitoring capability for imbalances at the output ports. A trial 8-way combiner with 20% bandwidth at a center frequency of 1.15 GHz fully verified the new design concept.

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