

Abstracts

Planar Broad-Band 180° Hybrid Power Divider/Combiner Circuit (Short Papers)

M. Kumar, R.J. Menna and H.-C. Huang. "Planar Broad-Band 180° Hybrid Power Divider/Combiner Circuit (Short Papers)." 1981 Transactions on Microwave Theory and Techniques 29.11 (Nov. 1981 [T-MTT]): 1233-1235.

A planar broad-band 180° hybrid is presented. The hybrid is realized using a 3-dB 90° hybrid and a 0-dB 90° tandem hybrid. An interdigitated version of the hybrid fabricated on alumina substrate performed well over the 4-8-GHz band. The hybrid has an insertion loss of 0.5 dB, phase imbalance of $\pm 7^\circ$, and an isolation of better than 18 dB over the band.

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