# Abstracts

## Ultra Wide Band Slotline Hybrid Ring Couplers

*C.-H. Ho, L. Fan and K. Chang. "Ultra Wide Band Slotline Hybrid Ring Couplers." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1175-1178.*

The design procedure and results of two newly developed hybrid ring couplers using microstrip-coupled slotline ring are presented in this paper. The couplers have a wider bandwidth with an excellent power dividing balance and a fairly good isolation than the conventional microstrip hybrid ring coupler. The slotline cross-over hybrid ring coupler exhibits greater than 35 dB isolation and goodpower dividing balance of ±0.2 dB over an 80% bandwidth from 1.8 to 4.2 GHz. The experimental results agree very well with the theoretical prediction. With the advantage of allowing easy series or shunt insertion of devices, these couplers are useful in many applications for MICs and MMICs.

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