

Abstracts

A 50:1 Bandwidth Cost-Effective Coupler with Sliced Coaxial Cable

H. An, R.G. Bosisio, K. Wu and T. Wang. "A 50:1 Bandwidth Cost-Effective Coupler with Sliced Coaxial Cable." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 789-792.

A 20 dB 50:1 bandwidth, extremely low-cost coupler with sliced coaxial cable is reported in this paper. The proposed coupler consists of two shaped coaxial cables with adequate sliced linear-tapered cuts and soldered together. It has excellent performance in terms of low VSWR, good isolation, excellent EMI shielding, ultrawide coupling bandwidth, and high power handling capability. Good agreement between measurements and calculations on one hand shows the excellent performance of the coupler, and on the other hand validates the design procedure.

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