

Abstracts

A 3 dB Planar Coupler in the Form of an Elliptically Shaped Disc

M.E. Bialkowski and S.T. Jellett. "A 3 dB Planar Coupler in the Form of an Elliptically Shaped Disc." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 209-212.

A planar 3dB coupler in the form of an 8-port elliptical disc is investigated theoretically and experimentally. The hybrid consists of additional reactive stubs and impedance steps for tuning purposes. The new device features flat coupling, good return loss and isolation over a 20% relative bandwidth.

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