Abstracts

Full Wave Design of Multi-Hole Back-to-Back Microstrip Couplers

W. Schwab and W. Menzel. "Full Wave Design of Multi-Hole Back-to-Back Microstrip Couplers." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 897-898.

The design of multi-hole back-to-back microstrip couplers is described, combining standard design methods initially developed for rectangular waveguide multi-aperture couplers and full wave spectral domain techniques for the planar circuits. The couplers consist of two microstrip lines on different sides of a common ground plane. Coupling is achieved through a number of holes (slots) in the ground plane between both microstrip lines. Theoretical and experimental results of a 8-hole coupler with a coupling value of 3 dB for 5 GHz are presented.

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