

Abstracts

A stripline directional coupler utilizing a non-homogeneous dielectric medium (1967 [MWSYM])

J.E. Dalley. "A Stripline Directional Coupler Utilizing a Non-Homogeneous Dielectric Medium (1967 [MWSYM])." 1967 G-MTT International Microwave Symposium Program and Digest 67.1 (1967 [MWSYM]): 63-65.

In the conventional 3 db directional coupler, shown schematically in Figure 1a, equal output signals appear at ports 2 and 3 when port 1 is used as the input. No signal appears at port 4. The effective dielectric constant for the even mode (ϵ_{re}) must be approximately equal to the effective dielectric constant for the odd mode (ϵ_{ro}) to assure equal propagation velocities which are essential for this type of coupler.

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