Abstracts

A Broad-Band Uniplanar Slotline Hybrid Ring Coupler with Over One Octave Bandwidth

C.-H. Ho, L. Fan and K. Chang. "A Broad-Band Uniplanar Slotline Hybrid Ring Coupler with Over One Octave Bandwidth." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 585-588.

This paper presents a new uniplanar hybrid ring coupler using coplanar waveguide (CPW) and slotline. The coupler provides substantially improved amplitude and phase characteristics over a broad bandwidth compared to the conventional microstrip hybrid ring couplers. Experimental results show that the new coupler has a bandwidth of one octave from 2 GHz to 4 GHz with ±0.25 dB power dividing balance and ±1° phase balance.

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