

Abstracts

A Broad-Band Uniplanar Branch-Line Coupler Using a Coupled Rectangular Slotline Ring

C.-H. Ho, L. Fan and K. Chang. "A Broad-Band Uniplanar Branch-Line Coupler Using a Coupled Rectangular Slotline Ring." 1993 Microwave and Guided Wave Letters 3.6 (Jun. 1993 [MGWL]): 175-176.

A new uniplanar branch-line coupler has been developed that provides substantially improved broad-band amplitude and phase characteristics when compared to conventional microstrip branch-line couplers. Experimental results show that the new coupler has over 20-dB isolation over a bandwidth of more than 40% centered at 3 GHz with ± 1 -dB power dividing balance.

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