

Abstracts

A New Wide-Band and Reduced-Size Uniplanar Magic-T

L. Fan, S. Kanamaluru and K. Chang. "A New Wide-Band and Reduced-Size Uniplanar Magic-T." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 667-670.

This paper presents a new reduced-size uniplanar magic-T using coplanar waveguide (CPW) and a slotline ring that is 20% smaller than comparable designs. The circuit provides good amplitude and phase characteristics over a broad bandwidth. Experimental results show that the magic-T has a maximum power dividing imbalance of 0.4 dB and a maximum phase imbalance of 2.5° over the entire 1.6 octave bandwidth from 2 to 6 GHz.

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