

Abstracts

A 180° Out-of-Phase Power Divider Using Asymmetrical Coplanar Stripline

L. Fan and K. Chang. "A 180° Out-of-Phase Power Divider Using Asymmetrical Coplanar Stripline." 1996 Microwave and Guided Wave Letters 6.11 (Nov. 1996 [MGWL]): 404-406.

This letter presents a new uniplanar 3-dB power divider using an asymmetrical coplanar stripline (ACPS) for microwave integrated circuit (MIC) and microwave and millimeter-wave integrated circuit (MMIC) applications. The circuit having 180° out-of-phase between two output ports provides good performance as compared to conventional microstrip power dividers.

Experimental results for the power divider show an amplitude imbalance of 0.4 dB and a phase difference of $180^\circ \pm 1^\circ$ over a wide bandwidth from 2.5 to 3.5 GHz.

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