

Abstracts

Properties of Meander Coplanar Transmission Lines

W.H. Haydl. "Properties of Meander Coplanar Transmission Lines." 1992 Microwave and Guided Wave Letters 2.11 (Nov. 1992 [MGWL]): 439-441.

Experimental results for a new type of coplanar transmission line on insulating gallium arsenide, applicable to the miniaturization of MMIC's, are presented. The center conductor of the transmission line has the form of a meander line, and results in an increased inductance per unit length of coplanar line. Low propagation velocities in the range $0.5 - 1 \times 10^{10}$ cm/s have been measured. Lines of different dimensions have been characterized by on-wafer S-parameter measurements and equivalent circuit modeling.

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