

Abstracts

Planar impedance transformer

*D. Jaisson. "Planar impedance transformer." 1999 *Transactions on Microwave Theory and Techniques* 47.5 (May 1999 [T-MTT]): 592-595.*

A transformer with two overlapping windings etched on either side of a planar substrate is presented in this paper. It performs an impedance transformation with a 3.3 ratio within a small area. A simple model is derived, based on well-known formulas for transmission lines and inductance factors of multiple conductors. Magnetic and electric coupling are analyzed separately. An experiment shows a good accuracy for this model.

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