

A Broadband Parameter Extraction Technique for the Equivalent Circuit of Planar Inductors

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A broadband parameter-extraction technique is developed for the equivalent circuit of planar inductors based on measured S-parameters and the use of Y parameters. The broadband information allow the definition of a concise quality measure and frequency range of application beyond the first resonance. We prove that the negative coupling capacitance appearing in the equivalent circuit is indeed required in order to approximate closely the distributed nature of the inductors even if it appears to contradict the general perception.

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