

Abstracts

A fully integrated active inductor with independent voltage tunable inductance and series-loss resistance

C. Leifso and J.W. Haslett. "A fully integrated active inductor with independent voltage tunable inductance and series-loss resistance." 2001 Transactions on Microwave Theory and Techniques 49.4 (Apr. 2001, Part I [T-MTT]): 671-676.

A fully integrated GaAs MESFET active inductor is presented in this paper with independent voltage tunable inductance and series-loss resistance. The measured inductance is tunable from 65 to 110 nH in the frequency range from 100 MHz to 1.0 GHz. The measured loss resistance is independently tunable over a -5.6- to +20.8-/spl Omega/ range corresponding to a 0.26 and 0.65 V change in dc tuning voltages, respectively.

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