

## Broad-Band Monolithic Microwave Active Inductor and its Application to Miniaturized Wide-Band Amplifiers

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*S. Hara, T. Tokumitsu, T. Tanaka and M. Aikawa. "Broad-Band Monolithic Microwave Active Inductor and its Application to Miniaturized Wide-Band Amplifiers." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1920-1924.*

A broad-band monolithic microwave active inductor is proposed and its characteristics are discussed. This active inductor consists of a cascode FET with a feedback resistor, and operates in a much higher frequency range than a spiral inductor. The size is independent of the inductance value. Miniaturized wide-band amplifiers in two frequency bands are also realized by utilizing the active inductors.

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