

Abstracts

Monolithic VCO Using a Novel Active Inductor

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A novel high-Q tunable active inductor utilizing a common-source cascode FET with a lossy active inductor feedback is described. Using this active inductor, we propose a monolithic VCO with a frequency tuning range from 1.66 GHz to 2.2 GHz in a compact area of $0.7 \times 1.2 \text{ mm}^2$.

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