Abstracts

Monolithic Active Resonators for Wireless Applications (1994 [MCS])

P. Alinikula, R. Kaunisto and K. Stadius. "Monolithic Active Resonators for Wireless Applications (1994 [MCS])." 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 94.1 (1994 [MCS]): 197-200.

In this paper new tunable, monolithic active resonator topologies are presented. The circuits, based on the advances in GaAs MMIC active inductors, show stable, high-Q performance withl large tunability and compact layout. The simulated results exceed significantly the properties of conventional varactor-tuned circuits. The new circuits are applied to active filters and proposed active resonator oscillators (ARO), which show great potential for wireless applications at the 2 GHz band.

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