Abstracts

High Performance MMIC Narrow Band Filter Using Tunable Active Inductors

S. Lucyszyn and I.D. Robertson. "High Performance MMIC Narrow Band Filter Using Tunable Active Inductors." 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 94.1 (1994 [MCS]): 91-93.

An MMIC filter is presented which employs novel tunable active inductors, where both inductance and negative resistance can be varied. The 2 GHz filter achieved a mean insertion loss of 0.9dB, passband ripple of ±0.7dB, 3dB bandwidth of 70 MHz and an excellent out-of-band rejection which exceeds 50dB up to 18 GHz.

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