Abstracts

An MMIC Active LC Filter

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This paper proposes a novel active LC filter that is suitable to MMIC application. The proposed filter achieves a remarkable reduction in chip size because of smaller inductances realized by actively providing low source impedance to the LC filter. An MMIC 7th-order L-band active LC low-pass filter has been demonstrated in only a 2.7mm x 0.8mm chip. The insertion gain at the passband is 8.5±2dB. The return loss and the isolation are better than 12dB through the both pass-band and stop-band.

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