
Study on Low Noise Amplifier for Ultra Wideband System

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In this thesis , two low noise amplifiers are applied for Ultra Wideband system . Using wideband filter and feedback topologies increase our circuit bandwidth . Design a butterworth filter in front of the transistor in order to obtain wideband , low power consumption , low noise figure effects . It also gives improvement in high frequency parasitic effect . The circuit is implemented by TSMC 0.18 μ m RF CMOS process . The simulation and measurement results fit our standard .