

عنوان مقاله:

Low Noise Amplifier with excellent NF for Telecommunication receiver in low power applications

محل انتشار:

اولین کنفرانس ملی ایده های خلاقانه در انرژی های پایدار (سال: 1397)

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خلاصه مقاله:

The low noise amplifier can be the first block in a telecom receiver and can function properly for this block It has a lot of effect on the next block and the whole system of the receiver, so that it is safe to say Low noise amplifier is one of the most important parts in a telecommunication receiver. For this reason, matching Suitable impedance for input and output of low noise amplifier, low noise number, good fault and gain High power consumption along with low power consumption are important considerations in the design of ultra-low noise amplifiers. The proposed LNA is designed for UWB applications using 180 nm TSMC CMOS process. An excellent noise figure (NF) of 2.30–2.7 dB was obtained in the required band with a power dissipation of 5.6 mW under a supply voltage of 1 V

کلمات کلیدی:

Low noise amplifier, Ultra-wideband, Resistive shunt feedback, Current reused, Low power design

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