Abstract

This proposal reviews the design aspects of a low noise amplifier (LNA) of a RF receiver for wireless communication. This LNA has an operating frequency range covering almost all the
working bands of wireless communications standard like Bluetooth, GSM, and the third
generation mobile communication. It is presented that this LNA is expected to have high
linearity due to possibility of large interference signal tones that are present at the receiver end.
But this LNA must have high linearity but not at the expense of sacrificing any other
specification like gain and noise figure. This paper gives an idea of an LNA that will be of great
convenience for multi-standard RF wireless communication.

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Index Terms

Computer Science

Wireless

Keywords

Low-noise Amplifiers  Multi-band Receivers  Wideband RF Circuits  RF Front-end

Communication System

Noise Figure (nf)

Gain