Abstract

Amplifier Noise Cancellation

Wireless circuitry can include amplifier circuitry. The amplifier circuitry can include a first input transistor having a gate terminal coupled to an input terminal, a second input transistor having a gate terminal coupled to the input terminal, a first inductor coupled to a source terminal of the first input transistor, and a capacitor having a first terminal coupled to the source terminal of the first input transistor and having a second terminal coupled to a source terminal of the second input transistor. The amplifier circuitry can further include a second inductor coupled between the source terminal of the second input transistor and a power supply line. The capacitor can be configured to resonate with the first and second inductors to provide noise cancelling at a target operating frequency.

Figure 1