عنوان مقاله:

Design of a Mixer for &G applications

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خلاصه مقاله:

In this paper we are going to design an ultra wideband mixer for &G applications. In this paper we have designed a &G mixer that it has a noise figure (NF) between 9- 10dB and a gain of Yo dB in the operating frequency of Y9 GHz. In this paper the proposed mixer is designed in TSMC 1Aonm. has a reversed Isolation of -1o dB in this frequency and it has a OPIdB of Ya dBm in the RF port of YodBm. The IPW of the proposed mixer is about aodBm. The techniques that we have used for designing the proposed mixer is the current mirror PMOS transistors with inductive degeneration in current mirror transistors to increase the gain and improve linearity .and inductive source degeneration technique is .used to improve the IP٣

کلمات کلیدی: UWB mixer, ۵G applications, Noise Figure, Gain

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