

Abstracts

A zero DC-power low-distortion mixer for wireless applications

J.J. Kucera and U. Lott. "A zero DC-power low-distortion mixer for wireless applications." 1999 Microwave and Guided Wave Letters 9.4 (Apr. 1999 [MGWL]): 157-159.

A fully integrated passive field-effect transistor (FET) mixer with a measured conversion loss of 7 dB and a -1 dB input compression point of -1.5 dBm at 1.9 GHz was fabricated in a standard 0.6 μm /m GaAs MESFET process. Zero DC-power consumption, excellent dynamic performance, and low loss make this circuit very suitable for low-power low-voltage wireless applications.

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