

Abstracts

Fully differential dual-band image reject receiver in SiGe BiCMOS

J. Imbornone, J.-M. Maurant and T. Tewksbury. "Fully differential dual-band image reject receiver in SiGe BiCMOS." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 147-150.

A fully differential, dual-band, image reject receiver chip is described. SiGe BiCMOS ($f_t=45$ GHz) enables high dynamic range with $NF=2.8/4.1$ dB (900 MHz/1.8 GHz) including requisite balun loss, $IIP3 > -17$ dBm, $G_p=22$ dB, and image rejection >40 dB at 2.7V (87mW).

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