

Abstracts

A 2.4 GHz CMOS transceiver for Bluetooth

H. Darabi, S. Khorram, E. Chien, M. Pan, S. Wu, S. Moloudi, J.C. Leete, J.J. Rael, M. Syed, R. Lee, B. Ibrahim, M. Rofougaran and A. Rofougaran. "A 2.4 GHz CMOS transceiver for Bluetooth." 2001 Radio Frequency Integrated Circuits (RFIC) Symposium 01. (2001 [RFIC]): 89-91.

A fully integrated CMOS transceiver tuned to 2.1 GHz consumes 46 mA in receive-mode and 47 mA in transmit-mode from a 2.7 V supply. The receiver achieves a sensitivity of -80 dBm at 0.1% BER, and an IIP3 of -7 dBm. The transmitter delivers a GFSK modulated spectrum at an output power of 5 dBm.

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