

Abstracts

A fully integrated SiGe bipolar 1.4 GHz Bluetooth voltage-controlled oscillator

B.-U.H. Klepser and J. Kucera. "A fully integrated SiGe bipolar 1.4 GHz Bluetooth voltage-controlled oscillator." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 61-64.

A 2.4 GHz fully monolithic voltage-controlled oscillator for the Bluetooth wireless data communication standard is presented for the first time using a commercially available SiGe bipolar technology. An oscillator phase noise of -129 dBc/Hz is achieved at 3 MHz offset, with a tuning range of 500 MHz and a supply current of 6 mA at 3 V.

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