

# Abstracts

## A low phase noise monolithic VCO in SiGe BiCMOS

---

*J.-M. Maurant, J. Imbornone and T. Tewksbury. "A low phase noise monolithic VCO in SiGe BiCMOS." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 65-68.*

A fully integrated, low phase noise, dual-band voltage controlled oscillator (VCO) utilizing a novel tuning scheme is reported. Coarse digital tuning is achieved using MOSFETs and fine analog tuning utilizes PN varactors. The measured phase noise is -95 dBc/Hz max at 3 GHz±25 kHz over the whole tuning bandwidth (±12.5%), and the power dissipated is 22.5 mW. To our knowledge, these are the best results published so far.

 [Return to main document.](#)