

Abstracts

SiGe bipolar technologies for low phase noise RF and microwave applications (2000 [RFIC])

*M. Regis, M. Borgarino, L. Bary, O. Llopis, J. Graffeuil, A. Gruhle, S. Kovacic and R. Plana.
"SiGe bipolar technologies for low phase noise RF and microwave applications (2000 [RFIC])."
2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 245-248.*

This paper presents an overview of the low frequency noise performances of both "abrupt" and "gradual" SiGe HBTs. We demonstrated that when appropriate device is used, 1/f corner noise frequency at 1 kHz is obtained. We further presented a correlation with phase noise performances which outperform those reported with III-V devices.

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