

# Abstracts

## 47 GHz SiGe-MMIC oscillator

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*C.N. Rheinfelder, K.M. Strohm, L. Metzger, H. Kibbel, J.-F. Luy and W. Heinrich. "47 GHz SiGe-MMIC oscillator." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 5-8 vol. 1.*

A 47 GHz MMIC SiGe-HBT oscillator on high-resistivity silicon is presented. An output power of 13.1 dBm and an efficiency of 13.6% is measured. The oscillator exhibits a phase-noise of -99.31 dBc/Hz at 100 kHz off-carrier. These results represent a new record value for SiGe-HBT based oscillators.

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