

Abstracts

A Coplanar 38-GHz SiGe MMIC Oscillator

C.N. Rheinfelder, F. Beisswanger, J. Gerdes, F.J. Schmuckle, K.M. Strohm, J.-F. Luy and W. Heinrich. "A Coplanar 38-GHz SiGe MMIC Oscillator." 1996 Microwave and Guided Wave Letters 6.11 (Nov. 1996 [MGWL]): 398-400.

Design, technology, and first results of a coplanar Si-SiGe HBT oscillator monolithically integrated on high-resistivity silicon are reported. At 38 GHz, an oscillator output power of 2 dBm with a conversion (dc to rf) efficiency of 6% is measured.

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