

Abstracts

SiGe MMIC's beyond 20 GHz on a commercial technology

C.N. Rheinfelder, H. Kuhnert, J.-F. Luy, W. Heinrich and A. Schuppen. "SiGe MMIC's beyond 20 GHz on a commercial technology." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 727-730.

A comparison of 22 and 25 GHz MMIC SiGe-HBT oscillators on high- and low-resistivity silicon employing the commercial TEMIC process is presented. An output power of 11 dBm at 22 GHz, an efficiency of 24%, and, at 25 GHz, a phase-noise of -93 dBc/Hz at 100 kHz off-carrier is measured.

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