

Abstracts

Coplanar and microstrip oscillators in SiGe SIMMWIC technology

K.M. Strohm, C.N. Rheinfelder, J.-F. Luy, P. Nuechter, T. Hess, W. Heinrich, H. Kuhnert, M. Nadarassin, C. Warns and W. Menzel. "Coplanar and microstrip oscillators in SiGe SIMMWIC technology." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1563-1566 vol.3.

Oscillators in SiGe SIMMWIC HBT technology have been realized in coplanar and a newly developed microstrip environment. Coplanar 24 GHz LC oscillators show 8.7 dBm output power and a phase noise of -99 dBc/Hz @ 100 kHz offset. Coplanar 27 GHz VCO's yield 12.5 dBm output power and a tuning range of 1.28 GHz. Microstrip 27 GHz VCO's show 5 dBm output power and a phase noise better than -90 dBc/Hz @ 100 kHz offset.

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