

Abstracts

SiGe SIMMWICs

J.-F. Luy and P. Russer. "SiGe SIMMWICs." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 105-108.

Millimeterwave transit time devices are monolithically integrated on a high resistivity silicon substrate. The resonant structure acts as an active antenna at 76.5 GHz with a synchronisation network. Acting as a subharmonic synchronisation oscillator, a coplanar SiGe MMIC for 25.5 GHz power generation is described. The realized module shows a frequency tuning range of >250 MHz which can be adjusted by the frequency of the synchronisation oscillator.

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