

Silicon MOSFETs, the Microwave Device Technology for the 90s

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Silicon MOSFET technology using 1.5 μ m gate lengths has demonstrated excellent performance for 900 MHz applications. Circuit results for low noise amplifiers, power amplifiers, mixers, and oscillators using this technology will be discussed in comparison to other device technologies. Device results for 0.6 μ m gate length devices showing the microwave performance of silicon MOS transistors are discussed. These results together with scaling predictions indicate that microwave silicon MOSFETS will play a major role in the 90s.

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