

Abstracts

High Performance GaAs C-Band and Ku-Band MMIC Oscillators

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A number of monolithic single-ended and push-pull oscillator chips were developed for C-band and Ku-band applications. The chips were used to build dielectric resonator oscillator (DROs) and voltage controlled oscillators (VCOs) in both frequency bands. These MMICs also have integrated a buffer amplifier at the oscillator output to provide better load isolation and power output stability. The oscillators demonstrated performance similar to conventional hybrid circuitry however, the MMIC circuits will provide circuit simplicity with improved reliability, decreased size and reduced manufacturing cost.

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