

# Abstracts

## Microwave Oscillators and Filters Based on Microstrip Ring Resonators

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*D.K. Paul and P. Gardner. "Microwave Oscillators and Filters Based on Microstrip Ring Resonators." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. 1 [MWSYM]): 83-86.*

Tunable microstrip ring resonator oscillators and filters are described. Two alternative techniques for suppression of unwanted higher order modes are reviewed. The practical oscillator has a tuning bandwidth of nearly 30%, and phase noise better than -90dBc, 10kHz from carrier. This is encouraging performance for a compact planar device.

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