

# Abstracts

## Automatic frequency control techniques for microwave active filters

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*H. Serhan, B. Jarry and P. Guillon. "Automatic frequency control techniques for microwave active filters." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 697-700.*

The paper discusses Phase Locked Loop (PLL) and Magnitude Locked Loop (MLL) techniques based on voltage controlled filter (VCF), for the automatic frequency control (AFC) of active filters. Applications to a microwave planar filter are considered. Theoretical analysis, simulated and measured results are presented for both phase and magnitude control circuits enabling the filter to accurately track a reference signal.

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