

# Abstracts

## MMIC tunable bandpass filter using a ring resonator with loss compensation

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*D.K. Paul, M. Michael and K. Konstantinou. "MMIC tunable bandpass filter using a ring resonator with loss compensation." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 941-944.*

Ring resonators incorporating negative resistance circuits for loss compensation are studied for use as high Q tunable MMIC resonators. The design of a 13 GHz MMIC bandpass filter together with a background theoretical analysis, are presented. Simulation results indicate unloaded Q-factors of 1000 over 1 GHz tuning bandwidth.

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