

# Abstracts

## Using a negative capacitance to increase the tuning range of a varactor diode in MMIC technology (2001 Vol. III [MWSYM])

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*S. Kolev, B. Delacressonniere and J.-L. Gautier. "Using a negative capacitance to increase the tuning range of a varactor diode in MMIC technology (2001 Vol. III [MWSYM])." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1581-1584 vol.3.*

An original method to increase the tuning range of a MMIC varactor diode is presented. An active circuit simulating a negative capacitance is connected to the varactor diode. This method allows to increase the varactor's tuning range more than ten times. A MMIC simulating a negative capacitance have been successfully fabricated and measured and we hope to be able to present measured results of a complete active varactor by the time of the symposium.

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