

# Abstracts

## GaAs Phase-Coherent Microwave Multiple-Signal Generation Using All-Pass Networks

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S.K. Altes, T.-H. Chen and L.J. Ragonese. "GaAs Phase-Coherent Microwave Multiple-Signal Generation Using All-Pass Networks." 1986 *Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest* 86.1 (1986 [MCS]): 71-74.

All-pass network techniques have made it possible to realize very small monolithic lumped active phase shifters with decade bandwidth, high yield, and relative phase stability, even when the device parameters vary  $\pm 20\%$ . We have successfully demonstrated fully monolithic first-order networks (at 250 MHz) and second-order networks (at 4 GHz).

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