

# Abstracts

## A Monolithic Single-Chip X-Band Four-Bit Phase Shifter

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Y. Ayasli, A. Platzker, J. Vorhaus and L.D. Reynolds, Jr.. "A Monolithic Single-Chip X-Band Four-Bit Phase Shifter." 1982 *Transactions on Microwave Theory and Techniques* 30.12 (Dec. 1982 [T-MTT] (1982 Symposium Issue)): 2201-2206.

X-band GaAs monolithic passive phase shifter with 22.5°, 45°, 90°, and 180° phase bits are developed using FET switches. By cascading all four bits, a four-bit digital phase shifter with 5.1±0.6-dB insertion loss is realized on a single 6.4 x 7.9 x 0.1-mm chip.

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