

# Abstracts

## Wideband GaAs Four Quadrant Multiplier

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*C. Ryan, D. Hartman, J.M. Frary and C.E. Weitzel. "Wideband GaAs Four Quadrant Multiplier." 1983 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 83.1 (1983 [MCS]): 5-11.*

A four quadrant multiplier has a variety of high frequency, signal processing applications (phase detection, modulation, and frequency conversion). This paper describes work undertaken to design, model, fabricate, and test a GaAs monolithic four quadrant multiplier which utilizes dual-gate FETs. The multiplier was fabricated using n-type epitaxial GaAs on a high resistivity substrate.

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