

Abstracts

Wideband GaAs Four Quadrant Multiplier

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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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