

Abstracts

A Multioctave Active GaAs MMIC Quadrature Phase Shifter

P. Philippe, P. Coget, V. Pauker, P. Dautriche and P. Jean. "A Multioctave Active GaAs MMIC Quadrature Phase Shifter." 1989 Transactions on Microwave Theory and Techniques 37.12 (Dec. 1989 [T-MTT] (1989 Symposium Issue)): 2119-2124.

A GaAs monolithic quadrature phase shifter based upon a phase locked loop system covers a 0.1 to 4.5 GHz frequency range. It provides about 8 dB of gain and its phase error and amplitude mismatch are respectively less than 2.5° and 0.4 dB over the band. When integrated into a single-sideband receiver, a sideband rejection of at least 30 dB has been achieved.

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