Abstracts

A Multioctave Active MMIC Quadrature Phase Shifter

P. Coget, P. Philippe, V. Pauker, P. Dautriche and P. Jean. "A Multioctave Active MMIC Quadrature Phase Shifter." 1989 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 89.1 (1989 [MCS]): 75-77.

This paper describes a 0.1 - 4.5 GHz GaAs monolithic quadrature phase shifter with very small phase error based upon a phase locked loop system. Such a wide band capability has been achieved by using FETs as voltage controlled resistors in a R-C all-pass phase shifter. This circuit, integrated in a broadband receiver produced an image rejection of at least 30 dB over the frequency band.

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