

Double Balanced Mixers Using Active and Passive Techniques

A.M. Pavio, R.H. Halladay, S.D. Bingham and C.A. Sapahe. "Double Balanced Mixers Using Active and Passive Techniques." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1948-1957.

A variety of double balanced mixers, employing dual-gate FET's or diodes as the mixing nonlinearities, have been fabricated using planar monolithic circuit technology. The mixer topologies, which use active balancing methods, eliminate the need for large suspended substrate structures, thus minimizing circuit area and facilitating integration. These unique approaches also eliminate IF extraction problems and combine the best performance characteristics of FET's and diodes.

 [Return to main document.](#)