Abstracts

A Novel MMIC Coupler - Measured and Simulated Data

F. Mernyei, I. Aoki and H. Matsuura. "A Novel MMIC Coupler - Measured and Simulated Data." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. I [MWSYM]): 229-232.

This paper presents wafer measurements and parameter extraction on the new Broadside-Offset-Coupled Coplanar-Microstrip (BOC-CPW-MS) coupler we introduced earlier. This passive structure was fabricated by using multilayer MMIC technology which allows us to realize couplers with various coupling values, controlled by its geometry. The control of the coupling in the -3 to -30 dB range with a 100% bandwidth at 30GHz center frequency was achieved.

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