Abstracts

A 900MHz 90 Degrees Hybrid for QPSK Modulator

S. Arai, A. Kato, K. Minami and T. Nishikawa. "A 900MHz 90 Degrees Hybrid for QPSK Modulator." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 857-860.

A miniaturized surface mounting 90 degrees hybrid using a meandered thin film microstrip line directional coupler has been developed for the QPSK modulator. The coupling level of the narrow spacing parallel lines on a high dielectric constant (K) ceramics was calculated using Finite Element Method (FEM) and a circuit simulator. Balanced outputs and quadrature phase difference in the frequency range of 950 MHz ± 10 MHz were obtained experimentally at the size of 1.7 (H) x 4.8 (W) x 6.2 (D) mm.

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