

Abstracts

New Cross-T Junction for CPW Stub-Filters on MMIC's

F. Mernyei, I. Aoki and H. Matsuura. "New Cross-T Junction for CPW Stub-Filters on MMIC's." 1995 Microwave and Guided Wave Letters 5.5 (May 1995 [MGWL]): 139-141.

This letter reports on a new Cross-T junction for CPW stub-type filters. We analyzed the structure by full 3D structure simulations and corrected its equivalent circuit based on measurement data. Using the equivalent circuit of the Cross-T we optimized filters by compensating for their discontinuities. We found good agreement between the measured and simulated characteristics, which confirms the validity of the equivalent circuit.

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