

Performance analysis of monolithic RF transformers by experimental characterization

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Electrical performances of 4-port n:n dual-spiral transformers fabricated in a thick plated copper on silicon process are analyzed. Multiport data analysis techniques and compact modeling are used to study the relationships between the physical and the electrical attributes of the devices. Analytical models, based on measurements from 50 MHz to 20 GHz, are used to explore achievable device performance under different design constraints.

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