

Abstracts

A Vector Network Analyzer Integrated Into Coplanar-Waveguide Probes

J.V. Bellantoni and R.C. Compton. "A Vector Network Analyzer Integrated Into Coplanar-Waveguide Probes." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1025-1028.

A new type of vector network analyzer integrated with two coplanar-waveguide (CPW) probe tips for making on-wafer measurements is presented. The CPW configuration is capable of large bandwidths and allows measurements to be made directly at the device under test. The analyzer consists of detector diodes spaced logarithmically along two CPW probe tips to sample the signal, and uses six-port theory to calculate s-parameters. A 5-10 GHz proof of concept model was built and used to test a MMIC PIN diode switch.

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