Abstracts

Low-Cost Microwave/Millimeter-Wave Impedance Measuring Scheme Using a Three-Probe Microstrip Circuit

K. Chang, M.-y. Li and T.H. Sauter. "Low-Cost Microwave/Millimeter-Wave Impedance Measuring Scheme Using a Three-Probe Microstrip Circuit." 1990 Transactions on Microwave Theory and Techniques 38.10 (Oct. 1990 [T-MTT]): 1455-1460.

A simple, compact, and low-cost three-probe microstrip impedance measuring scheme has been developed. The impedance of an unknown load can be easily determined by measuring the coupling power levels at the three probes. The coupling coefficients for the three probes can be unequal and arbitrary, and only one power meter is required by using a single-pole three-throw switch. A prototype device has been built at X-band. The measured results agree very well with those obtained from an HP 8510 automatic network analyzer.

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