

Abstracts

Direct Calibration and Measurement of Microstrip Structures on Gallium Arsenide (Dec. 1986 [T-MTT])

P.R. Shepherd and R.D. Pollard. "Direct Calibration and Measurement of Microstrip Structures on Gallium Arsenide (Dec. 1986 [T-MTT])." 1986 Transactions on Microwave Theory and Techniques 34.12 (Dec. 1986 [T-MTT] (1986 Symposium Issue)): 1421-1426.

Measurements on coupled microstrip line structures on gallium arsenide (GaAs) are described which use a direct launch and calibration standards in the same microstrip medium. Novel techniques are adopted to ensure repeatability and overcome problems of fragility of the substrates. Measurements of the S-parameters show good agreement with theoretical analysis. The theoretical derivation of the S-parameters is summarized in an appendix.

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