

Abstracts

Evaluation of a 94 GHz Diode-Based Dual Six-Port Network Analyzer

R.A. Fong-Tom. "Evaluation of a 94 GHz Diode-Based Dual Six-Port Network Analyzer." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 567-568.

The feasibility and accuracy diode-based dual six-port network of a 94 GHz analyzer is demonstrated. Consistency experiment show that the systematic errors are acceptably small: the attenuation measurement uncertainty is 0.01 dB at low attenuation increasing to 0.3 dB at high attenuation (40 dB); the reflection coefficient measurement uncertainty is less than 0.008.

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