

Abstracts

A New W-Band Coplanar Waveguide Test Fixture

J.V. Bellantoni, R.C. Compton and H.M. Levy. "A New W-Band Coplanar Waveguide Test Fixture." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1203-1204.

A new type of coplanar waveguide (CPW) test fixture suitable for transistor measurements in the 75-110 GHz band will be presented. The fixture employs finline tapers to transition from waveguide to CPW, and air-bridges to tie the opposing ground planes to the same potential. A simple computer model has been developed to aid in the design of the waveguide to CPW transitions. A prototype fabricated on low dielectric substrate has 4 dB loss from 85-95 GHz.

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