Abstracts

Millimetre-Wave Device Modelling Differences in Microstrip and Coplanar Waveguide

P.C. Walters, R.D. Pollard, J.R. Richardson and G. Gatti. "Millimetre-Wave Device Modelling Differences in Microstrip and Coplanar Waveguide." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1173-1176.

The measurement of an active device produces results which are dependent on the transmission medium in which the device is embedded. These differences, insofar as a particular device is concerned, are related solely to its extrinsic elements, the intrinsic device being the same in all cases. Results are presented for on-wafer measurement and 2D simulation of a specially designed active device and its associated transmission structure in both microstrip and coplanar waveguide. This dual approach has the advantage of enabling a model for the intrinsic device to be validated and the extrinsic model elements for both structures to be obtained.

❑ Return to main document.