Abstracts

Membrane Technology (MIST-T) Applied to Microstrip: A 33 GHz Wilkinson Power Divider

T.M. Weller, L.P. Katehi, M.I. Herman and P.D. Wamhof. "Membrane Technology (MIST-T) Applied to Microstrip: A 33 GHz Wilkinson Power Divider." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 911-914.

Application of membrane technology to transmission line design leads to broad-band, pure TEM wave propagation and thus excellent electrical characteristics. This approach has previously been demonstrated using a coplanar waveguide geometry, and is now used to develop a membrane-based microstrip line. The new geometry exhibits nearly ideal waveguiding properties, and is utilized here in a low-loss 33 GHz Wilkinson power divider.

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