Abstracts

Optimum Microstrip Interconnects

S. Nelson, M. Youngblood, J. Pavio, B. Larson and R. Kottman. "Optimum Microstrip Interconnects." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1071-1074.

A simple, automated assembly technique has been developed which solves the high VSWR and insertion loss problems associated with variable wire inductance in microwave assemblies. The following paper discusses theory, design and fabrication of optimum microstrip interconnects from 2 to 20 GHz. Microstrip interconnects, modeled and measured, are shown to achieve VSWRs of 1.2:1 through 20 GHz, even when several intercomects are cascaded. The technique is tolerant of gap variations between substrates and of misalignment of the microstrip conductors.

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