Abstracts

Characterization of Metal on Elastomer Vertical Interconnections

F. Colomb, K. Eastman and J. Roman. "Characterization of Metal on Elastomer Vertical Interconnections." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 75-78.

A metal on elastomer vertical interconnection for multilayer microwave modules is presented. Measured insertion loss is 0.5 dB at 6 GHz. Layer to layer lateral misalignment of the substrates by as much as ±0.006 inch causes only a 0.1 dB degradation in performance. A two-tier design approach is presented for first analyzing the vertical strips as a uniform multiconductor transmission line and then for including the interactions of all discontinuities in a 3D simulation using the finite element method.

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