

Abstracts

Effective dielectric constant of the embedded transmission line (ETL)-a multilayer stripline-like structure

A. Darwish, A. Ezzeddine, H.C. Huang and M. Mah. "Effective dielectric constant of the embedded transmission line (ETL)-a multilayer stripline-like structure." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1249-1252 vol.3.

Utilizing 3D circuits may reduce components cost significantly. An essential configuration to consider is the embedded transmission line (ETL), an offset stripline with two dielectrics. There is no closed-form solution for the effective dielectric constant. This paper provides an accurate (1% maximum error) approximate formula, and compares it with full wave simulations.

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