

Abstracts

A Model for Coplanar Waveguide Transmission Line Structure on Semiconductor Substrates (Short Papers)

K.R. Nary, K.G. Bellare and S.I. Long. "A Model for Coplanar Waveguide Transmission Line Structure on Semiconductor Substrates (Short Papers)." 1993 Transactions on Microwave Theory and Techniques 41.10 (Nov. 1993 [T-MTT]): 2034-2037.

An accurate model for coplanar waveguide transmission line structures on semiconductive substrates is presented. The model is useful for simulating long (> 0.5 mm) interconnects on LSI and VLSI GaAs circuits as well as high speed Si ICs. When simulated in the frequency domain, the model shows an excellent match to measured S parameters of coplanar waveguide samples.

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