

Accurate passive component models in coplanar waveguide for 50 GHz MMICs

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Accurate circuit models for several passive components in coplanar waveguide have been developed. These models utilize lumped and distributed circuit elements available in computer-aided design software packages and have element values that are derived from measured S-parameter data, geometrical data and physical process parameters. This work discusses the development of the models and verifies their accuracy by comparing measured and modeled S-parameters to 50 GHz.

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