

## Systematic Investigation of Coplanar Waveguide MIC/MMIC Structures Using a Unified Strip/Slot 3D Electromagnetic Simulator

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The electrical properties of coplanar waveguide MIC/MMIC structures like open and short end, gap, step, bend, tee and capacitor have been studied using an efficient, unified strip/slot 3D electromagnetic simulator. Parasitic slot mode excitation, the effects of air bridges and equivalent circuit representations are discussed for frequencies to 60 GHz and higher.

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