

Accurate Quasi-Static Model for Conductor Loss in Coplanar Waveguide

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A quasi-static model for coplanar waveguide (CPW) including conductor loss has been developed. Comparison between experimental measurements on low-loss dielectric substrates and model calculations show excellent agreement. To model the conductor loss, the CPW is conformally-mapped into a parallel plate configuration, where current crowding and conductor loss are accounted for using scaled conductance.

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