

Conductor-Backed Slot Line and Coplanar Waveguide: Dangers and Full-Wave Analyses

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Despite the many attractive features of conductor-backed slot line and coplanar waveguide, there are dangers or potential surprises in their use. We have developed two theoretical approaches, one purely numerical and the other in network form and analytical in nature, that agree well with each other and with measurements in a special case. They provide, for the first time, a quantitative description of these potential surprises when the line conductors are either infinite or finite in width.

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