

Characteristics of Modified Slotline Configurations

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Studies on the performances of modified slotline configurations: 1) a dual slotline and 2) a dielectric loaded conductor-backed slotline, are presented based on a full-wave spectral-domain analysis. The spectral moment method analysis is outlined, and results on propagation constant and characteristic impedance of example geometries are discussed. It is shown, that unlike an unloaded conductor-backed slotline, a conductor-backed slotline with a suitable dielectric loading on top or an even mode dual-slotline can be safely used without power leakage to the parallel plate mode.

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