

Abstracts

Characteristics of Modified Slotline Configurations

N.K. Das. "Characteristics of Modified Slotline Configurations." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 777-780.

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.

[Return to main document.](#)