Abstracts

Dynamic Three-Dimensional TLM Analysis of Microstriplines on Anisotropic Substrate

The frequency-dependent propagation characteristics of a hybrid mode along microstriplines on anisotropic substrates are presented for the case where the constitutive parameter tensors maybe diagonalized. A generalization of the three-dimensional transmission-line-matrix (TLM) numerical procedure is used to obtain results for the phase constant Beta, effective permittivity epsilon/sub eff/, and the characteristic impedance Z, all as functions of frequency and the shape ratio (w/h). Also shown are results for coupled microstrips on a sapphire substrate.

❏ Return to main document.