

Abstracts

Bias-Field / Frequency Design Charts for Composite Gyrotropic Resonators

S.I. Sheikh, A.A.P. Gibson and B.M. Dillon. "Bias-Field / Frequency Design Charts for Composite Gyrotropic Resonators." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1663-1666.

The permeability and permittivity tensors of magnetised ferrite and semiconductor materials have different dependencies on bias field, signal frequency and material properties. Mode charts are presented for composite planar ring resonator junctions: the semiconductor case has an additional resonance region and exhibits more symmetrical split frequencies than the ferrite.

[Return to main document.](#)

Click on title for a complete paper.