Abstracts

High-Azimuthal-Index Resonances in Ferrite MIC Disk Resonators

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This paper presents a study of the nonreciprocal high-azimuthal-index zero-radial-order modes which may resonate in ferrite MIC disk resonators magnetized perpendicularly to the ground plane. Both ferrite volume (FV) and edge-guided-wave (EGW) modes we investigated by using a suitable equivalent model. It is found that when the ferrite is saturated, a simple empirical parameter is sufficient to characterize the fringing-field effects at the disk's edge.

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