

Spectral Domain Analysis of an Open Slot Ring Resonator

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A full wave analysis of an open slot ring resonator on a dielectric substrate is presented. It is based upon Galerkin's method in the Hankel transform domain. The computed resonant frequencies for several slot widths agree well with the experimental values on alumina substrate with $\epsilon_r = 9.6$ in the 26-37-GHz frequency range.

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