

Abstracts

A Tunable Bandpass Ring Filter for Rectangular Dielectric Waveguide Integrated Circuits (Short Papers)

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Dielectric waveguide structures have received renewed interest in recent years for application at millimeter wavelengths. A number of passive and active microwave devices in the dielectric waveguide technologies have been recently developed. This short paper describes a method for providing continuous mechanical tuning of a resonant dielectric ring filter for use with rectangular dielectric waveguide integrated circuits. Results obtained with an experimental device operating at K band are also given.

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