

Abstracts

Study of Whispering Gallery Modes in Double Disk Sapphire Resonators

H. Peng. "Study of Whispering Gallery Modes in Double Disk Sapphire Resonators." 1996 Transactions on Microwave Theory and Techniques 44.6 (Jun. 1996 [T-MTT]): 848-853.

A mode matching method for determining the resonant frequencies of the whispering gallery modes in a double cylindrical disk dielectric resonator is presented. The method has an improved accuracy in the calculation of the transverse magnetic modes with high axial numbers in a single uniaxial-anisotropic disk resonator. In this paper, frequency tuning and detuning due to the interaction between various whispering gallery modes will also be discussed.

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