

Abstracts

Distributed coupling in a circular dielectric disk resonator and its application to a square dielectric disk resonator to fabricate a low-profile dual-mode BPF

A.C. Kundu and I. Awai. "Distributed coupling in a circular dielectric disk resonator and its application to a square dielectric disk resonator to fabricate a low-profile dual-mode BPF." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 837-840.

A novel method is proposed to calculate the distributed coupling of a circular disk resonator. New theoretical expressions are devised to calculate it and its validity is justified by FD-TD analysis and experiments. This coupling concept is applied to square disk resonator to calculate its resonant frequency. We have fabricated two types of low-profile dual-mode bandpass filter using square dielectric disk resonator.

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