

Slotted Dielectric Resonators for Rigorous Design of a Four-Poles Dual Mode Filter

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A new dual mode coupling technique is described. This new method replaces the classical coupling and tuning screws by slotted dielectric resonators. The theoretical analysis uses the three-dimensional finite element method. For the first time, a four-poles dual modes slotted dielectric resonators filter is rigorously designed, taking into account the dielectric losses. The experimental results show excellent agreement with the theoretical ones.

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