

Abstracts

Direct Coupling Configuration Between TE/sub 01delta/ Dielectric Resonator Modes Application to the Design of an Elliptic Microwave Filter

S. Verdeyme and P. Guillon. "Direct Coupling Configuration Between TE/sub 01delta/ Dielectric Resonator Modes Application to the Design of an Elliptic Microwave Filter." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 223-226.

A technic to realize direct coupling between Dielectric Resonators (DRs) acting on their dipolar mode is presented. This new geometric configuration eliminates the need of transmission lines, metallic screws or iris generally employed in microwave filters to obtain negative coupling coefficients. An experimental 4 poles elliptic filter has been constructed to verify the theory.

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