Abstracts

A new planar type dielectric resonator for microwave filtering

S. Moraud, S. Verdeyme, P. Guillon, P. Ulian and B. Theron. "A new planar type dielectric resonator for microwave filtering." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1307-1314.

This paper is devoted to high electrical performance resonator realization for multilayer filter applications. A partially metallized substrate is shielded in a metallic cavity and excited by coplanar lines directly integrated on the dielectric resonator. This structure is suitable for high frequency filtering and power applications, and presents the advantage that it can be easily manufactured. Moreover, a new coupling technique without tuning is presented to realize a 2-pole filter. Experiments are performed to verify the theoretical design.

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